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| Japan-no let up in expansion                                  | N          | J050             | GEMSTONES  |            |     |              | IRON/STEEL (AUSTRALASIA)                                      |          |                  | Lead and zinc in the 70s  | EA.      | J184         |
| Japan/Morocco Agreement                                       | IA         | 1078             |  |            |     |              |   |          |                  |   | IA<br>MW | J184<br>J197 |
| Indian copper find<br>Khetri project progresses               | IA<br>IA   | J097<br>J101     | State control of gem mining<br>Emerald discovery in Colombia     | MW<br>IA   |     | 005<br>317   | Sentinel export study<br>Hamersley expansion plan             | EA.      | J011             | Agnigundala lead-copper project   | MW       | J198         |
| Surveys' contract with Japan                                  | IA         | J121             |  |            | -   |              | Tasmanian iron ore find                                       | IA       | JO31             |   | IA<br>S  | J204<br>J207 |
| Japanese to sell copper?  Japan's London Copper Base          | IA<br>IA   | J185<br>J229     | GOLD (AFRICA)  |            |     |              | Hamersley major expansion                                     | MW       | 1131             |   | IA       | 1229         |
| Indian copper deposits  | IA.        | J292             | Accident at Kloof  | IA         | 30  | 033          | Taylor Woodrow in Australia<br>Australian iron ore outlook    | IA<br>IA | J141             | Lead and zinc   | S        | J230         |
| USSR-UK agreement   | IA         | 1293             | S. African gold records  | IA         | 16  | 080          | Mt. Newman iron ore   | IA       | 1141             |   | S        | J251<br>J295 |
| Copper exports urged<br>Mitsui copper deal                    | IA<br>IA   | J293<br>J345     | Hydraulicking on Basuru River<br>Elsburg intersects reef         | IA<br>IA   |     | 080<br>182   | Texas Gulf-Hanwright agreement<br>Aust-Japanese - US project  | IA.      | J158<br>J202     | No quick end to usage in petrol   | MW       | J417         |
| Furukawa/Alwin project  | IA         | J494             | Luipaardsvlei to close   | IA         |     | 204          | BHP dumping duty levy   | IA.      | 1206             | Anvil Mining expansion  | IA       | J425         |
| Japanese copper exports                                       | IA         | 1497<br>1526     | Ghana government attitudes                                       | MW         |     | 217          | Australian ore for UK   | IA       | J206             |   |          | J430<br>J453 |
| Urals copper industry Mysore smelter prospects                | IA<br>IA   | J526<br>J526     | Western Areas-Elsburg<br>State aid for new gold mine             | IA<br>MW   | J3  | 275<br>362   | Aust, iron ore for Scotland<br>Hamersley Himet contract       | IA<br>IA | J227<br>J228     | Tax on lead   | MW       | J467         |
| Siberian copper   | IA         | J548             | S. African rock cutter   | IA         | 14  | 150          | Another iron ore prospect                                     | MW       | J243             |   |          | J487<br>J494 |
| Mitsubishi/Atlas agreement                                    | IA<br>MW   | J550<br>J589     | Vaal Reefs gold mine   | IA         | 13  | 67           | Japanese concern over policies Outlook for Australian exports | MW       | J245<br>J245     | Lead/zinc takes stock   | N        | J517         |
| Ertsberg Copper Project<br>Almalyk mining complex             | D          | M081             | GOLD (CANADA)  |            |     |              | Robe River jumps the hurdle                                   | MW       | J265             | Mt. Carrington assays   | IA       | J525         |
| Copper markets in Japan                                       | D          | M514             |  |            |     |              | Robe River project  | IA       | 1274             |   |          | J528<br>J541 |
| COPPER (AUSTRALASIA)  |            |                  | Eagle Gold Expansion Outario gold mines' threat                  | IA<br>IA   |     | 93           | Iron ore royalties raised<br>Kwinana strike                   | IA<br>IA | J276<br>J276     | Calm on the LME   | S        | J551         |
|   |            |                  | Campbell Red Lake Workings                                       | IA         |     | 25           | Robe River  | MW       | J310             | Almalyk mining complex  |          | M081         |
| Papuan copper talks   |            | J031             |  |            |     |              | Robe River development  | IA       | J367             | Increasing lead price Agnigundala deposits  |          | M076<br>M251 |
| Westmoreland assay results<br>West Irian copper project       |            | J031<br>J059     | GOLD (VARIOUS)   |            |     |              | Great Whale iron ore<br>Funds for Robe River                  |          | J399<br>J445     |   |          |              |
| Freeport's Indonesian loan                                    | IA.        | 1138             | Pragmatic monetary gold moves                                    | N          | JO  |              | WA mineral production   | IA       | J495             | MAGNESITE   |          |              |
| West Irian copper sales<br>Hastings Exploration report        |            | J102<br>J202     | Panama gold placer<br>Premiums deferred                          | IA<br>Supp | Jo  |              | Mt. Newman/Japanese ore price<br>Iron ore contracts           | IA<br>P  | J550<br>M009     | Skalistiri group expansion  | IA       | J033         |
| Hastings Exploration report<br>Bougainville expenditure       | IA         | J2012<br>J227    | Impala in Guyana   | Supp       | Ja  | 178          | Hamarsley's Himet plant                                       | P        | M009<br>M335     |   |          | J267         |
| Hastings copper find  |            | 1274             | More gold with the IMF   | IA         | JI  | 41           | Robe River project  | P        | M337             |   | D        | M425         |
| menufic support the   |            |                  |  |            |     |              |   |          |                  |   |          |              |

| MAGNESIUM  |  |  | Free nickel steadier   | S  | J230  | RUTILE   |  |  | TITANIUM   |  |  |
|--|--|--|--|--|---|--|--|--|--|--|--|
| Soviet metals  | IA   |  | Vultan nickel search<br>Carr Boyd assay results  | IA<br>IA   | 1274  | Cable's rutile find  | JA   | J078   | Soviet metals  | 1/   |  |
| GSA cobalt and magnessum offer   | EA   | J550   | Poseidon reports<br>Falconbridge's threefold expansion   | MV   |   | Market reviewed Asphalt in Ecuador   | IA   | J091<br>J097   | Prospects for titanium   | M  | W J175   |
| MANGANESE  |  |  | New Le Nickel company  | IA   | J319  | Australian mineral sands   | IA   | J101   | TUNGSTEN   |  |  |
|  |  | 1017   | Records in nickel production<br>Great Boulder ore reserves   | IA.  | J343  | Australian interest in Brazil  | IA   | J427   |  | IA   | J079   |
| USSR manganese production<br>Mokta iron ore and manganese  | IA<br>IA   |  | Sumitomo to buy Canadian ore<br>Rise in Nepean nickel production   | IA<br>IA   | J345<br>J345  | SALT   |  |  | King Island Scheelite<br>BC tungsten mine  | IA   | J080   |
| Indian manganese exports<br>US con; amption steady   | IA<br>M  |  | Mt. Clifford values  | IA   | J367  | Moroccan rocksalt discovery  | IA   | J182   | GSA stockpile release<br>USSR—tin/tungsten property  | M  |  |
| Stockpile disposal hearings  | IA   | J185   | Carr Boyd report<br>Colombian nickel development   | IA<br>IA   | J367<br>J369  | Moroccan rocksalt  | IA   | 1223   | Tungsten moves down  | S  | J252<br>J285   |
| Moroccan production<br>Mokta perspectives mixed  | IA   |  | Botswana RST production plans  | JA<br>MW   | J370  | Salt mine expansion  | IA   | 3274   | China—through a glass darkly<br>Traditional uses expand  | M  | W J311   |
| Japan mongawas coport estimate Mangares  | IA   | 1345   | WA mining rationalised<br>Two big rail projects  | MV   | 1393  | SCHEELITE  |  |  | Canton Fair prospects<br>Norlex Mines prospect   | M'   |  |
| Electronic   | IA   | J470   | Manitoban mineral prospects<br>Taeminex anomalies  | IA   | J398<br>J423  |  |  |  | GSA tungsten sales   | IA   | J528   |
| Expansion at Groot E-randt<br>Ukraine istenganese  | IA<br>IA   | J471<br>J495   | Mid-East nickel results  | IA   | 1449  | Peko abandons Attunga  | IA   | J031   | US producer reactivated<br>G.S.A. sales policy criticised  | M <sup>3</sup>   |  |
| Development of Bolivian ores   | IA   | J495   | Outokumpu new mine<br>Western Mining to buy nickel concs.  | IA   | J451<br>J451  | SELENIUM   |  |  |  |  |  |
| Chiatura manganese mines<br>Treating manganese   | D  | M237<br>M427   | Nickel drifts  | S  | 1453  | SELENIUM   |  |  | URANIUM  |  |  |
|  |  |  | Lamadec Australian progress<br>Kambalda drilling   | IA   | J470<br>J471  | U.S. price increase  | IA   | J038   |  |  | 1000   |
| MERCURY  |  |  | Prospecting off Greenland<br>Cleveland-Cliffs nickel claims  | IA   | J493<br>J493  | Free selenium declines   | S  | J142   | Queensland uranium values<br>Texas uranium venture   | IA<br>IA   | J009<br>J010   |
| Caucasian mercury complex  | IA   | J010   | Greenvale development  | IA   | 1,44  | SILICA   |  |  | Amax to suspend uranium op.<br>Silver Bell/Grace agreement   | IA   | J033<br>J058   |
| U.S. mercury consumption<br>New Idria's mercury plans  | IA<br>IA   | J035<br>J035   | WA mineral production<br>Nickel price drifts   | IA<br>S  | J495<br>J499  |  |  |  | Denison's uranium agreement  | IA   | J081   |
| Amiata mercury price cut   | S  | J103   | Western Mining strike spreads  | IA   | 1472  | New silica source<br>Arizona silicate plant opened   | IA.  | J419<br>J497   | Uranium—demand deferred<br>Uranium on Baffin Island  | N<br>IA  | J089<br>J118   |
| Mercury Mercury rally sustained  | S  | J122<br>J230   | Option exercised near Kalgoorlie<br>Nickel ore in India  | IA   | J449<br>J525  |  |  |  | AEC cuts uranium purchases   | MV   | V J134   |
| US mercury output down   | IA   | 1294   | First shipment from Kwinana  | IA   | J525  | SILVER   |  |  | S. African uranjum<br>Utah Mining uranjum agreement  | IA<br>IA   | J139<br>J140   |
| Mercury<br>Mercury   | S  | J322<br>J453   | New Caledonia nickel exports<br>Loma de Hierro nickel deposits   | IA<br>MW   | J528<br>J542  | Superbine's second cutour!   | IA   | J060   | Canada/Japan deal  | IA   | J140   |
| Mercury drifts   | S  | 3551   | Widgiemool tha mining operation<br>Central Norseman nickel strike  | IA   | J547<br>J547  | Sunshine's record output<br>Stability for silver?  | N  | J129   | Preston completes drilling<br>United Nuclear uranium find  | IA<br>IA   | J157<br>J157   |
| World Mercury output   | IA   | 1574   | Sumitomo Canada nickel venture   | IA   | J548  | Nevada silver discovery<br>Overseas labour for Mt. Isa   | IA<br>IA   | J157<br>J160   | Alaskan uranium-thorium  | IA   | J157<br>J183   |
| MOLYBDENUM   |  |  | Soviet nickel for Japan<br>Greek nickel deposits   | IA<br>IA   | J550<br>J574  | Denison in Mexico  | IA   | J202   | Japanese uranium venture<br>International Nuclear  | IA<br>IA   | J183   |
| Canadian molybdenum values   | IA   | J118   | Texmont agreement  | 1A   | J597  | Si'vers up on GSA news<br>Kerr-Addison Yukon property  | S  | J207<br>J225   | Rio Algom uranium stakes   | IA<br>IA   | J185<br>J202   |
| Record production<br>Molybdenite/wolframite finds  | IA   | J074<br>J292   | Colombian Nickel Development<br>Free nickel lower  | IA<br>MM   | J598<br>J605  | Silver   | S  | J230   | Monte Cristo uranium<br>Uranium mine sale halted   | MW   | J215   |
| Molybdenum-strength through  |  | 1485   | Nickel's upward move   | T  | M076  | Conah prospect<br>New Mexican silver mine  | IA<br>IA   | J248<br>J275   | Leopold Minerals uranium<br>Humble uranium mine plans  | IA<br>IA   | J248<br>J204   |
| Phase IV at Henderson  | N<br>MW  |  | Philippine mining complex<br>What next with Poseidon?  | P  | M091<br>M092  | Utica Mines  | IA   | 1344   | Angola and Mozambique  | £A   | 3248   |
| Sileurian's Molybdenum<br>Japanese Molybdenum Plant  | IA<br>IA   | J573<br>J599   | Botswana project   | P  | M093  | Silver vein in Mexico Avino Mines  | ÎA<br>LA   | J367<br>J395   | Palabora extraction plant<br>Rio Algom uranium contract  | IA<br>IA   | J249<br>J251   |
| Mo in porphyry copper deposits   | A  | M187   | Cuban nickel<br>Nickel at Greenvale  | P  | M165<br>M252  | Mexican silver   | IA   | J398<br>J400   | Humble Oil uranium   | IA   | 1275   |
|  |  |  | OIL  |  |   | Silver takes a knock<br>Fall and rise on the LME   | S  | J430   | Niger uranium plant<br>Swiss uranium search  | IA<br>IA   | J276<br>J292   |
| MONAZITE   |  |  |  | MW   | J288  | New Mexican silver company<br>Mexican mineral output   | IA<br>IA   | J548<br>J548   | Mary Kathleen uranium  | IA<br>N  | J293<br>J305   |
| Flotation of monazite  | D  | M323   | Platinum in petrol production<br>North Sea oil strike  | IA   | J288<br>J395  | Mexican mineral output   | LA   | 3340   | Preserving the heritage<br>Major uranium discovery   | IA   | J317   |
|  |  |  | Diversifying into strength<br>USSR oil and gas problems  | N<br>MW  | J441<br>J468  | SULPHUR  |  |  | Gulf Oil uranium project<br>Uranium recovery plant   | IA<br>IA   | J369<br>J399   |
| NATURAL GAS  |  |  | Offshore oil search in WA  | IA   | 1470  | JUL HOL  |  |  | Kratos Uranium   | IA   | J423   |
| European energy market   | MW   |  | Delay on Irish Sea licences<br>Gas exploration licences  | IA   | J470<br>J493  | Sulphur mine in Iraq<br>Guatemalan mining interests  | IA<br>IA   | J158<br>J183   | Susquehanna uranium mill<br>Keeping up the pace  | IA<br>N  | J427<br>J465   |
| North Sea pipeline<br>USSR oil and gas problems  | IA<br>MW   | J140<br>J468   | Rhodesian oil search   | IA   | J493  | Mining Arica sulphur   | IA   | J225   | New Mexico uranium   | IA   | J470   |
| Gas exploration licences   | IA   | J493   | North sea strike<br>Greek oil concessions  | IA   | J520<br>J525  | Mexican sulphur negotiations   | IA   | J343   | Uranium sales offers<br>Niger deal finalised   | IA<br>MW   | J473<br>J520   |
| Irish Sea licences   | IA   | J547   | Irish Sea licences   | IA   | J547  | TANTALUM   |  |  | US uranium plans   | IA   | J527   |
| NICKEL   |  |  | New Zealand oil<br>Oil off Ghana   | IA   | 3571<br>3597  | TATTALOM   |  |  | Uranium Search in Wyoming<br>Rio's Algom's contract  | IA<br>IA   | J571<br>J575   |
|  |  |  |  |  |   |  |  |  |  |  | J597   |
|  |  | B00.4  | PALLADEM   |  |   | Tin and tantalite  | IA   | J317   | Australian Uranium   | IA   |  |
| Impact on nickel consumption<br>Nickel find at Wannaway  | MW   | J004<br>J009   | PALLADIUM  |  |   | Tin and tantalite<br>Canada's new producer   | IA<br>MW   | J317<br>J393   | Australian Uranium<br>Uranium Prospecting in Greece<br>S. African uranium plant  | IA<br>IA<br>P  | J597<br>M091   |
| Impact on nickel consumption<br>Nickel find at Wannaway<br>Mineral claims for Weatherby  | IA<br>IA   | J009<br>J009   | PALLADIUM Palladium, rhodium and platinum  | s  | J528  | Canada's new producer  |  |  | Uranium Prospecting in Greece  | IA   | 3597   |
| Impact on nickel consumption<br>Nickel find at Wannaway<br>Mineral claims for Weatherby<br>Newmetal nickel find<br>Loan for Dominican Republic   | IA<br>IA<br>IA   | J009<br>J009<br>J009<br>J010   | Palladium, rhodium and platinum  |  | J528  | Canada's new producer  | MW   | J393   | Uranium Prospecting in Greece  | IA   | 3597   |
| Impact on nickel consumption<br>Nickel find at Wannaway<br>Mineral claims for Weatherby<br>Newmetal nickel find<br>Loan for Dominican Republic<br>Colombian nickel plans   | IA<br>IA<br>IA   | J009<br>J009<br>J010<br>J011   | Palladium, rhodium and platinum PERLITE  | s  |   | Canada's new producer  TIN  Malacca Straits prospecting  | MW   | J393<br>J031   | Uranium Prospecting in Greece<br>S. African uranium plant<br>VANADIUM  | IA   | 3597   |
| Impact on nickel consumption<br>Nickel find at Wannaway<br>Mineral claims for Weatherby<br>Newmetal nickel find<br>Loan for Dominican Republic<br>Colombian nickel plans<br>New Caledonian furnaces contract<br>Deadlock at Clydach  | IA<br>IA<br>IA<br>IA<br>IA                               | J009<br>J009<br>J010<br>J011<br>J013<br>J013   | Palladium, rhodium and platinum  | s  | J528<br>J419  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling prices rising Mt. Wellington shaft-stanking   | MW<br>IA<br>S<br>IA  | J393<br>J031<br>J038<br>J059   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic   | IA<br>P  | J597<br>M091<br>J078<br>J133   |
| Impact on nickel consumption<br>Nickel find at Wannaway<br>Mineral claims for Weatherby<br>Newmetal nickel find<br>Loan for Dominican Republic<br>Colombian inickel plans<br>New Caledonian furnaces contract<br>Deadlock at Clydach<br>Poseidon—an anomaly  | IA<br>IA<br>IA<br>IA<br>IA<br>IA                         | J009<br>J009<br>J010<br>J011<br>J013<br>J013<br>J021   | Palladium, rhodium and platinum PERLITE  | s  |   | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising Mt. Wellington shaft-stanking J.T.C. buffer stock restrictions  | MW<br>IA<br>S  | J393<br>J031<br>J038   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery   | IA<br>P  | J597<br>M091<br>J078   |
| Impact on nickel consumption<br>Nickel find at Wannaway<br>Mineral claims for Weatherby<br>Newmetal nickel find<br>Loan for Dormican Republic<br>Colombian nickel plans<br>New Caledonian furnanes contract<br>Deadlock at Clydach<br>Poseidon—an anomaly<br>Hawkstone relinquishes claim<br>Nickel search in S. Australia   | IA<br>IA<br>IA<br>IA<br>IA<br>IA<br>IA                   | J009<br>J009<br>J009<br>J010<br>J011<br>J013<br>J013<br>J021<br>J031<br>J033   | Palladium, rhodium and platinum PERLITE Czech expansion PHOSPHATE  | S  | J419  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising Mt. Wellington shaft-anking LT.C. buffer stock restrictions Selling bout for tin Soviet in survey   | MW IA S IA S S IA  | J393<br>J031<br>J038<br>J059<br>J061<br>J082<br>J100   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic   | IA<br>P  | J597<br>M091<br>J078<br>J133   |
| Impact on nickel consumption<br>Nickel find at Wannaway<br>Mineral claims for Weatherby<br>Newmetal nickel find<br>Loan for Dominican Republic<br>Colombian nickel plans<br>New Ciadedonian furnoes contract<br>Deadlock at Civdach<br>Posedom—an anomaly  | IA<br>IA<br>IA<br>IA<br>IA<br>IA                         | J009<br>J009<br>J009<br>J010<br>J011<br>J013<br>J013<br>J021<br>J031   | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits  | S<br>MW<br>MW<br>IA  | J419<br>J025<br>J031  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising Mr. Chilippe and Art carding Mr. Chilippe and Art carding Mr. Chilippe and Art carding Mr. Chilippe and Mr.  | MW IA S IA S S IA S S S S S S S S S S S S  | J393<br>J031<br>J038<br>J059<br>J061<br>J082<br>J100<br>J103<br>J122   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic   | IA<br>P  | J597<br>M091<br>J078<br>J133   |
| Impact on nickel consumption<br>Nickel find at Wannaway<br>Mineral claims for Weatherby<br>Newmetal nickel find<br>Loan for Dornisean Republic<br>Colombian nickel plans<br>New Cladeonian furnaces contract<br>Deadlock at Chydach<br>Hawk stone etimoushes claim<br>Nickel search in S. Australis<br>Finnah nickel mine<br>Clydach talks useful<br>Nickel-mixed prospects for  | IA<br>IA<br>IA<br>IA<br>IA<br>IA<br>IA<br>IA             | J009<br>J009<br>J009<br>J010<br>J011<br>J013<br>J013<br>J021<br>J031<br>J033<br>J033<br>J037   | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development   | S<br>MW<br>MW<br>IA<br>MW  | J419<br>J025  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising Mt. Wellington shaft-sinking LT.C. buffer stock restrictions Selling bout for tin Soviet tin survey Tin falls further Recovery for tin South Crofty tin ore plant   | MW IA S IA S S IA S IA   | J031<br>J038<br>J059<br>J061<br>J082<br>J100<br>J103<br>J122<br>J139   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM   | IA<br>P  | J597<br>M091<br>J078<br>J133<br>J141   |
| Impact on nickel consumption<br>Nickel find at Wannaway<br>Mineral claims for Weatherby<br>Newmetal nickel find<br>Loan for Dorniscan Republic<br>Colombian nickel plans<br>New Cladeonian furnaes contract<br>Deadlock at Clydach<br>Poreidon—an anomaly<br>Hawk stone ethioquides claim<br>Elizabeth of the contract<br>Elizabeth of the contract<br>Elizabeth of the contract<br>Clydach talks useful<br>Nickel—mixed prospects for<br>terminal markets<br>S. Australian minerals search  | IA<br>IA<br>IA<br>IA<br>IA<br>IA<br>IA<br>IA<br>IA<br>IA | J009<br>J009<br>J009<br>J010<br>J011<br>J013<br>J013<br>J021<br>J031<br>J033<br>J033<br>J037<br>J049<br>J058   | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits  | S<br>MW<br>MW<br>IA  | J419<br>J025<br>J031<br>J075  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising Mt. Welling-prices rising I.T.C. buffer stock restrictions Selling bout for tin Soviet tin survey Tin falls further Recovery for tin South Croffy tin one plant Tin erratic Non-ferrous metals  | IA<br>S<br>IA<br>S<br>S<br>IA<br>S<br>IA<br>S  | J031<br>J038<br>J059<br>J061<br>J082<br>J100<br>J103<br>J122<br>J139<br>J142<br>J150   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM Wolfram surges ahead Abaleen wolfram sassay  | IA<br>P<br>IA<br>MW<br>IA  | J078<br>J133<br>J141<br>J062<br>J117   |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find Loan for Dormican Republic Colombian nickel plans New Caledonian furnances contract Deadlock at Clydach Poseidon—an anomaly Hawkstone relinoushes claim Nickel search in S. Australia Finnah nickel mine Clydach talks useful Nickel—mixed prospects for terminal markels search 5. Australian minerals search Texmont's nickel venture   | IA<br>IA<br>IA<br>IA<br>IA<br>IA<br>IA<br>IA<br>IA<br>IA | J009<br>J009<br>J009<br>J010<br>J011<br>J013<br>J013<br>J021<br>J031<br>J033<br>J033<br>J037<br>J049<br>J058   | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate  Spanish Saliara phosphate   | S<br>MW<br>MW<br>IA<br>MW<br>IA  | J419<br>J025<br>J031<br>J075<br>J250  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Wellings and far-fairling 1.7.C. buffer stock restrictions Selling boat for tin South for the Tin falls further Recovery for tin South Crofty tan ore plant Tin erratic Non-ferrous metals New UK (in mine   | IA<br>S<br>IA<br>S<br>S<br>IA<br>S<br>IA<br>S<br>IA<br>S   | J031<br>J031<br>J038<br>J059<br>J061<br>J082<br>J100<br>J103<br>J122<br>J139<br>J142<br>J150<br>J158   | Uranium Prospecting in Greece S. African uranium plant VANADIUM Union Carbide vanadium discovery US producers optimistic GSA sells vanadium WOLFRAM Wolfram surges ahead Abaleen wolfram assay Queensland wolfram deposit  | IA<br>P  | J597<br>M091<br>J078<br>J133<br>J141   |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find Loan for Dormican Republic Colombian nickel plans New Caledonian furnames contract Deadlock at Clydach Poseidon—an anomaly Hawkstone relinoushes claim Nickel search in S. Australia Finnah nickel mine Clydach talks useful Nickel—mixed prospects for terminal markels asserb S. Australian minerals search Texmont's nickel venture Great Boulder nickel interests Dormician nickel project to the contract of the Committee of the Committ | IA                      | J009<br>J009<br>J009<br>J010<br>J011<br>J011<br>J013<br>J021<br>J031<br>J033<br>J037<br>J049<br>J058<br>J058<br>J059<br>J059   | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate  | MW<br>MW<br>IA<br>MW<br>IA<br>P  | J419<br>J025<br>J031<br>J075<br>J250<br>M005  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Wellings and straining 17.C. buffer stock restrictions Selling boat for tin South for the straining Tin falls further Recovery for tin South Crofty tin ore plant Tin erratic Non-ferrous metals New UK tin mine Canadian venture for Penarroya W. German stockpile  | IA<br>S<br>IA<br>S<br>IA<br>S<br>IA<br>S<br>IA<br>S<br>IA<br>IA<br>IA<br>IA  | J031<br>J038<br>J059<br>J061<br>J082<br>J100<br>J103<br>J122<br>J139<br>J142<br>J150<br>J158<br>J158<br>J158   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges shead Abaleen wolfram assay Queensland wolfram deposit Overland Queensland assays Wolfram uncertain   | IA MW IA S IA IA S   | J078<br>J133<br>J141<br>J062<br>J117<br>J117<br>J138<br>J186   |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find to Loan for Dormican Republic Colombian nickel plans New Caledonian furnance contract Deadlock at Clydach Poseidon—an anomaly Hawk stone relinouishes claim Nickel sarach in S. Australia Finnah nickel mine Clydach talks useful Nickel—mixed prospects for terminal markets S. Australian minerals search Texmont's nickel venture Great Boulder nickel interests Dominican nickel project Shaft-sinking at Shebandowan Nepean's first withorpent of the property of the property of the programment of the property  | IA<br>IA<br>IA<br>IA<br>IA<br>IA<br>IA<br>IA<br>IA<br>IA | J009<br>J009<br>J009<br>J010<br>J011<br>J013<br>J013<br>J021<br>J033<br>J033<br>J037<br>J049<br>J058<br>J058<br>J059<br>J060   | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate Spansis Shanz phosphate PLATINUM  Lontho's ambitious plans   | MW IA MW IA P  | J419 J025 J031 J075 J250 M005   | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising Mt. Wellington shaft-sinking LT.C. buffer stock restrictions Selling bout for tim Soviet tim survey Tin falls further Recovery for tim South Crofty tim one plant Tim erratic Non-ferrous metals New UK (in mine Canadian venture for Penarroya W. German stockpile Tim in reverse again  | IA<br>S<br>IA<br>S<br>IA<br>S<br>IA<br>S<br>IA<br>S<br>IA<br>S<br>IA<br>S  | J031<br>J038<br>J059<br>J061<br>J082<br>J100<br>J103<br>J122<br>J139<br>J142<br>J150<br>J158<br>J158   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM Wolfram surges ahead Abaleen wolfram assay Queensland wolfram deposit Overland Queensland assays   | IA MW IA S IA IA S N IA  | J078<br>J133<br>J141<br>J062<br>J117<br>J117<br>J118<br>J186<br>J285<br>J292   |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find to Loan for Dorniscan Republic Colombian nickel plans New Catedonian furnanes contract Deadlock at Clydach Posedon—an anomaly Hawkstone relinquishes claim Nickel search in S. Australia Firmain nickel mine Crydach talks perspect for Nickel—mixed prospect for Nickel—mixed prospect for S. Australian minerals search Texmont's nickel venture Great Boulder nickel interests Dominican nickel project Shaft—sinking at Shebandowan Nepeais* first shipment   | IA I                 | J009<br>J009<br>J010<br>J010<br>J011<br>J013<br>J013<br>J021<br>J033<br>J033<br>J037<br>J049<br>J058<br>J058<br>J059<br>J060<br>J073<br>J078   | Palladium, rhodium and platinum  PERLITE  Czech expansion  HOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate Spanish Sahara phosphate  PLATINUM  Lontho's ambitious plans Platinum mine explosion Futther expansion at Impala  | MW IA MW IA P  | J025<br>J031<br>J075<br>J250<br>M005  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising Mt. Wellington shaft-sinking LT.C. buffer stock restrictions Selling bout for tim Soviet tim survey Tin falls further Recovery for tim South Crofty tim one plant Tim erratic Non-ferrous metals New UK tim mine Canadian venture for Penarroya W. German stockpile Tim in reverse again USSR to reopen tim/Jungsten property Robertson continuing surplus  | MW IA S IA S S IA S S IA S N IA  | J031<br>J038<br>J059<br>J061<br>J082<br>J100<br>J103<br>J122<br>J139<br>J150<br>J158<br>J158<br>J158<br>J158<br>J161<br>J161<br>J163<br>J175   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges ahead Abaleen wolfram assay Queensland wolfram deposit Overland Queensland assays Wolfram uncertain China—through a glass darkly Molybdenite/Wolframite finds Wolfram steadier  | IA<br>MW<br>IA   | J078<br>J133<br>J141<br>J062<br>J117<br>J117<br>J117<br>J138<br>J186<br>J285   |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find to Loan for Dorniscan Republic Colombian nickel plans New Caledonian furnanes contract Deadlock at Clydach plans of the Colombian nickel plans of the Colombian nickel plans of the Colombian State of the Colombian Nickel sarch in S. Australia Finnish nickel mine Clydach talks useful Nickel—nixed prospects for terminal markel victorial prospects for terminal markel victorial prospects for the Colombian nickel prospect for the Colombian State of the Colombian Nickel worker with the Colombian Nickel worker work of the Colombian Nickel prospects Le Nickel workers strike Free nickel project declines  | IA I                 | J009<br>J009<br>J009<br>J010<br>J011<br>J013<br>J013<br>J021<br>J031<br>J033<br>J037<br>J049<br>J058<br>J058<br>J059<br>J060<br>J073<br>J078<br>J078<br>J078<br>J078<br>J082   | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate  Spanish Saliara phosphate  PLATINUM  Lonrho's ambitious plans Platinum mine explosion  Further expansion at Impala  Platinum in petrol production   | MW IA MW IA P  | J025<br>J031<br>J075<br>J250<br>M005  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising Mt. Wellington shaft-sinking LT.C. buffer stock restrictions Selling bout for tin Soviet tin survey Tin falls further Recovery for tin South Crofty tin one plant Tin erratic Non-ferrous metals New UK tin mine Canadian venture for Penarroya W. German stockpile Tin in reverse again USSR to reopen tin/lungaten property Robertson continuing surplus No buffer stock restrictions Joint Malaysian tin venture   | MW IA S IA S S IA S N IA IA IA S MW MW S IA  | J031<br>J038<br>J059<br>J061<br>J082<br>J100<br>J103<br>J122<br>J139<br>J142<br>J150<br>J158<br>J161<br>J161<br>J174<br>J175<br>J175<br>J186   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges ahead Abaleen wolfram assay Queensland wolfram deposit Overland Queensland assays Wolfram uncertain China—through a glass darkly Molybdenite/Wolframite finds Wolfram remains quiet Abaleen wolfram   | IA MW IA S IA IA S S IA  | J597<br>M091<br>J078<br>J133<br>J141<br>J062<br>J117<br>J117<br>J1186<br>J285<br>J292<br>J371<br>J400  |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find to New Leadon for Dornstean Republic Colombian nickel plans New Caledonian furnaces contract New Caledonian furnaces contract Posts of the New Caledonian furnaces contract Posts of the New Caledonian furnaces contract New Caledonian furnaces contract New Caledonian furnaces contract Posts of the New Caledonian furnaces contract New Caledonian furnaces contract New Caledonian furnaces of the | IA I                 | J009<br>J009<br>J009<br>J010<br>J011<br>J013<br>J013<br>J021<br>J031<br>J033<br>J037<br>J049<br>J058<br>J059<br>J059<br>J059<br>J060<br>J078<br>J060<br>J078<br>J081<br>J081<br>J081<br>J097   | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate Spanish Sahara phosphate  PLATINUM  Lonrho's ambitious plans Platinum mine explosion Further expansion at Impala Platinum in petrol production Laverton platinum find Platinum   | MW IA MW IA MW IA MW IA S  | J419 J025 J031 J075 J250 M005 J073 J100 J243 J288 J317 J499   | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Wellington shaft-anking 1.7 C. buffer stock restrictions Selling bout for tim Soviet tim survey Tin falls further Recovery for tim South Crofty tim one plant Tim strait: South Crofty tim one plant Tim strait: New UK tim mine Canadian venture for Penarroya W. German stockpile Tim in reverse again USSR to reopen tim/fungsten property Robertson continuing aurplus No buffer stock restrictions Joint Malaysian tim venture Tim balance  | MW IA S IA S IA S IA S II I   | J031<br>J038<br>J059<br>J061<br>J089<br>J061<br>J100<br>J103<br>J129<br>J139<br>J142<br>J158<br>J158<br>J158<br>J158<br>J158<br>J161<br>J175<br>J186<br>J175<br>J186<br>J183<br>J193<br>J193   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges ahead Abaleen wolfram assay Queensland wolfram deposit Cverland Queensland assays  China—through a glass darkly Molybdenite/Wolframite finds Wolfram steadier Wolfram remains quiet Abaleen wolfram Wolfram in demand   | IA MWIA S IA IA IA S N IA S S S  | J078<br>J133<br>J141<br>J062<br>J117<br>J118<br>J138<br>J186<br>J285<br>J292<br>J371<br>J400<br>J425<br>J453   |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find to New Lead of Nickel find Loan for Dornaisean Republic Colombian nickel plans New Cladeonian furnaces contract Deadlock at Chydach Hawkstone relinousishes claim Nickel sarch in S. Australia Finnanh nickel mine Clydach talks useful Nickel -mixed prospects for terminal markets S. Australian minerals search Texmont's nickel venture Great Boulder nickel interests Dominican nickel venture Great Boulder in ickel interests Dominican nickel project Sard-sarking at Shebandowan Nepsan's first shipment to Le Nickel workers strike Free nickel project declines Widgismoothle shaft sinking Inco's Wingellinian nickel   | IA I                 | J009<br>J009<br>J010<br>J010<br>J011<br>J011<br>J013<br>J021<br>J033<br>J033<br>J033<br>J037<br>J049<br>J058<br>J059<br>J059<br>J059<br>J060<br>J078<br>J081<br>J081<br>J081<br>J097<br>J097   | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate Spanish Sahara phosphate  PLATINUM  Lontho's ambitious plans Platinum mine explosion Further expansion at Impala Platinum in petrol production Laverton platinum find Platinum  Palladium, rhodium and platinum  | MW IA MW IA MW IA MW IA  | J025<br>J031<br>J075<br>J250<br>M005<br>J073<br>J100<br>J243<br>J288<br>J317  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Wellington shaft-anking 1.7 C. buffer stock restrictions Selling bout for tim Soviet tim survey Tin falls further Recovery for tim South Crofty tim one plant Tim erratic South Crofty tim one plant Tim erratic New UK tim mine Canadian venture for Penarroya W. German stockpile Tim in reverse again USSR to reopen tim/fungsten property Robertson continuing airplus No buffer stock restrictions Joint Malaysian tim venture Tim balance Tim buffer stock activity?   | MW IA S IA   | J393<br>J031<br>J038<br>J059<br>J061<br>J082<br>J100<br>J103<br>J122<br>J139<br>J142<br>J150<br>J158<br>J158<br>J163<br>J175<br>J163<br>J175<br>J183<br>J175<br>J186<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges shead Abaleen wolfram assay Queensland wolfram assays Wolfram uncertain China—through a glass dackly Molydeeniet/Wolframiet finds Wolfram steadier Wolfram remains quiet Abaleen wolfram Wolfram in demand  | IA MW IA IA IA S IA S S IA S S IA  | J078<br>J133<br>J141<br>J062<br>J117<br>J138<br>J186<br>J185<br>J292<br>J371<br>J400<br>J425<br>J453<br>J473<br>J473<br>J473<br>J473<br>J473<br>J473   |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find to Loan for Dormiscan Republic Colombian nickel plans New Caledonian furnames contract Deadlock at Clydach Posedon—an anomaly Hawkstone relinquishes claim Nickel search in S. Australia Finniah nickel mine Clydach talks useful Nickel—mixed prospects for terminal market ends starch Clydach talks useful Nickel—mixed prospects for terminal market ends starch Clydach talks are full starch and the Clydach talks are full starc | IA I                 | J009<br>J009<br>J010<br>J010<br>J011<br>J011<br>J013<br>J021<br>J031<br>J031<br>J037<br>J049<br>J058<br>J059<br>J069<br>J069<br>J069<br>J069<br>J082<br>J097<br>J082<br>J097<br>J097<br>J097<br>J097<br>J097<br>J097<br>J097<br>J097         | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate Spanish Sahara phosphate  PLATINUM  Lonrho's ambitious plans Platinum mine explosion Further expansion at Impala Platinum in petrol production Laverton platinum find Platinum   | MW IA MW IA MW IA MW IA S  | J419 J025 J031 J075 J250 M005 J073 J100 J1243 J288 J317 J499 J499 J528  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising Michael Straits and Straits of the Michael Michael Straits of the Michael S | MW IA SIA S SIA S SIA S NIA IA IA S MW SIA N S MS  | J393<br>J031<br>J038<br>J059<br>J061<br>J082<br>J100<br>J103<br>J122<br>J139<br>J142<br>J150<br>J158<br>J161<br>J174<br>J175<br>J163<br>J174<br>J175<br>J186<br>J186<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189   | Uranium Prospecting in Greece S. African uranium plant VANADIUM Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM Wolfram surges ahead Abaleen wolfram sasay Queensland wolfram deposit Overland Queensland assays Wolfram uncertain China-through a glass darkly Moly bdentich Wolframite finds wolfram renains quiet Abaleen wolfram Wolfram renains quiet Abaleen wolfram Wolfram in demand Wolfram in demand Wolfram tight  | IA MWIA S IA IA S N IA S S IA IA S IA S IA S IA S S IA S IA S IA S IA S S IA S | J597<br>M091<br>J078<br>J133<br>J141<br>J062<br>J117<br>J117<br>J118<br>J138<br>J1285<br>J292<br>J371<br>J400<br>J425<br>J453<br>J473  |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find to Loan for Dormiscan Republic Colombian nickel plans New Caledonian furnanes contract Deadlock at Clydach plans New Caledonian furnanes contract Deadlock at Clydach state of the Nickel search in S. Australia Firnish nickel mine Clydach talks useful Nickel-mixed prospects for terminal markel prospects for terminal markel search Texmont's nickel venture Great Boulder nickel interest Dormiscan nickel prospects and the property of the Nickel workers strike Free nickel price declines Widgismooths shaft sinking it Short declines Widgismooths shaft sinking Inco's Wingellian nickel Nickel in Victoria Taminax of University Present Nickel Invictoria Taminax of University Present Present Nickel Invictoria Taminax of University Present Nickel Invictoria Taminax of University Present Nickel Present Nickel Strike settled at Clydach  | IA I                 | J009<br>J009<br>J010<br>J010<br>J011<br>J011<br>J013<br>J021<br>J031<br>J031<br>J037<br>J049<br>J058<br>J059<br>J069<br>J069<br>J069<br>J069<br>J069<br>J073<br>J073<br>J073<br>J073<br>J073<br>J073<br>J073<br>J073                         | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate  Spanish Sahara phosphate  PLATINUM  Lonrho's ambitious plans Platinum mine explosion Further expansion at Impala Platinum in petrol production Laverton platinum find Platinum Palladium, rhodium and platinum Lomho platinum New platinum refinery   | MW IA MW IA P MW IA S S P  | J025<br>J031<br>J075<br>J250<br>M005<br>J073<br>J100<br>J243<br>J288<br>J317<br>J499<br>J528<br>M165  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Weilington shaft-sanking I. Z. buffer stock restrictions Societ in survey Tin falls further Recovery for tin South Crofty tin one plant Tin erratic Non-ferrous metals New UK in mine Canadian venture for Penarroya W. German stockpile Tin in reverse again USSR to reopen tin/fungaten property Robertson continuing surplus No buffer stock restrictions Joint Malaysian tin venture Tin ballance Tin till mercovery by floation Williams Harvey dispute Tin recovers Tin still strong   | MW IA S IA S S IA S N IA IA S MW MS IA N S M S S S S   | J393<br>J031<br>J038<br>J059<br>J061<br>J082<br>J100<br>J103<br>J123<br>J142<br>J158<br>J158<br>J158<br>J158<br>J161<br>J161<br>J163<br>J174<br>J175<br>J178<br>J186<br>J186<br>J189<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199   | Uranium Prospecting in Greece S. African uranium plant VANADIUM Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM Wolfram surges ahead Abaleen wolfram sasay Queensland wolfram deposit Overland Queensland assays Wolfram uncertain China-through a glass darkly Molybdentier Wolframite funds Wolfram steadier Wolfram steadier Wolfram in demand Wolfram in demand Wolfram in demand Wolfram in demand Wolfram tight Mineral treatment plant Wolfram soars   | IA MW IA IA IA S N IA S S IA S S IA  | J078<br>J133<br>J141<br>J062<br>J117<br>J138<br>J186<br>J185<br>J292<br>J371<br>J400<br>J425<br>J453<br>J473<br>J473<br>J473<br>J473<br>J473<br>J473   |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find to Loan for Dornaisean Republic Colombian nickel plans reveal called nine anomaly Reveal Caledonian furnaces contract Deadlock at Clydach Poresidon—an anomaly Hawkstone relinquishers claim Hawkstone relinquishers claim Linguisher Clydach talks useful Clydach talks useful Nickel—mixed prospects for terminal markets S. Australian minerals search Texmont's nickel venture Great Boulder nickel interests Dominican nickel project Shaft—sinking at Shebandowan Nepean's first shipment gat Shebandowan Nepean's first shipment with the contraction of the contract | IA I                 | J009<br>J009<br>J009<br>J010<br>J011<br>J011<br>J013<br>J021<br>J031<br>J031<br>J033<br>J037<br>J048<br>J058<br>J058<br>J059<br>J059<br>J059<br>J060<br>J073<br>J081<br>J081<br>J081<br>J081<br>J081<br>J081<br>J081<br>J081                 | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate Spanish Sahara phosphate  PLATINUM  Lonrho's ambitious plans Flatinum mine explosion Further expansion at Impala Platinum in petrol production Laverton platinum find Platinum production Laverton platinum find Platinum platinum platinum Palladium, rhodium and platinum Lonrho platinum  | MW IA MW IA P MW IA S S P  | J025<br>J031<br>J075<br>J250<br>M005<br>J073<br>J100<br>J243<br>J288<br>J317<br>J499<br>J528<br>M165  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Wellington shaft-anking 1.T.C. buffer stock restrictions Selling bout for tim Soviet tin survey Tin falls further Recovery for tim South Crofty tim one plant Tin eratic Non-ferrous metals New UK tin mine Canadian wenture for Penarroya W. German stockpile Tim Serverer again/fungsten property Robertson continuing surplus No buffer stock activity? Tin balance Tin buffer stock activity? Tin necovery by flotation Williams Harvey dispute Tin covers Tin still strong Contango in Tin  | MW IA SIA S SIA S SIA S NIA IA IA S MW SIA N S MS  | J393<br>J031<br>J038<br>J059<br>J061<br>J082<br>J100<br>J103<br>J122<br>J150<br>J139<br>J142<br>J158<br>J158<br>J158<br>J158<br>J158<br>J158<br>J158<br>J158<br>J175<br>J175<br>J183<br>J197<br>J221<br>J221<br>J221<br>J225<br>J225<br>J227<br>J225   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges shead Abaleen wolfram assay Queensland wolfram assays Wolfram uncertain China—through a glass dackly Molydeeniet/Wolframiet finds Wolfram steadier Wolfram remains quiet Abaleen wolfram Wolfram in demand  | IA MW IA IA IA S N IA S S IA S S IA  | J078<br>J133<br>J141<br>J062<br>J117<br>J138<br>J186<br>J185<br>J292<br>J371<br>J400<br>J425<br>J453<br>J473<br>J473<br>J473<br>J473<br>J473<br>J473   |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find at Loan for Dornsiean Republic Colombian nickel plans not promise an anomaly Hawk stone relinquishes claim Nickel search in S. Australian Mickel mineral prospects for terminal markets S. Australian minerals search Texmont's nickel venture Creat Boulder nickel interests Dominican nickel prospect Shaft-sinking at Shebandowan Nepan's first shipment Vestralian nickel prospect Le Nickel workers strike Free nickel price declines Widgemoolths shaft sinking Inco's Wingellian nickel Nickel in Victoria Tamman of the Nickel strike Free nickel strike Free nickel primise report Tamman Shaft Shaf | IA I                 | J009<br>J009<br>J009<br>J010<br>J011<br>J011<br>J013<br>J021<br>J031<br>J033<br>J037<br>J049<br>J058<br>J058<br>J058<br>J059<br>J059<br>J059<br>J060<br>J073<br>J081<br>J097<br>J097<br>J097<br>J097<br>J097<br>J097<br>J097<br>J097         | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate depoats UAR minerals development Moroccan phosphate  Spaniah Sahara phosphate  PLATINUM  Lonrho's ambitious plans Platinum mine explosion Further expansion at Impala Platinum in petrol production Laverton platinum find Platinum New platinum refinery  POTASH  Potash price fixed   | MW IA P MW IA MW IA S S P A  | J025<br>J031<br>J075<br>J250<br>M005<br>J073<br>J100<br>J243<br>J243<br>J248<br>J317<br>J49<br>J528<br>M165<br>M193   | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Wellington shaft-sinking I.T.C. buffer stock restrictions Selling bout for tin Soviet tin survey Tin falls further Recovery for tin South Crofty tin one plant Tin erratic Non-ferrous metals New UK tin mine Canadian venture for Penarroya W. German stockpile Tin in reverse again USSR to reopen in/fungten property Robertson continuing surplus No buffer stock restrictions Joint Malaysian tin venture Tin buffer stock activity? Tin recovery by flotation Williams Harvey dispute Tin ecovery Tin still strong Contango in Tin 4th Tin Agreement Tin and tratalite   | MW IA S IA S S IA S N IA IA S MWW S IA N S M S S S S MW IA   | J393<br>J031<br>J038<br>J059<br>J061<br>J082<br>J100<br>J103<br>J103<br>J122<br>J139<br>J142<br>J150<br>J158<br>J161<br>J158<br>J161<br>J175<br>J183<br>J174<br>J175<br>J183<br>J174<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J186<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175<br>J175   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges ahead Abaleen wolfram assay Queensland wolfram deposit Coverland Queensland assays China-through a glass darkly Molybdenite/Wolframite finds Wolfram steadier Wolfram tenains quiet Abaleen wolfram Wolfram in demand Wolfram tight Mineral treatment plant Wolfram steatment plant Wolfram soars   | IA MW IA S IA S S IA S S IA T T  | J078<br>J133<br>J141<br>J062<br>J117<br>J117<br>J118<br>J186<br>J185<br>J292<br>J371<br>J400<br>J425<br>J453<br>J473<br>J473<br>J473<br>J473<br>J473<br>J473<br>J473<br>J47  |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find to Loan for Dormiscan Republic Colombian nickel plans New Caledonian furnames contract Deadlock at Clydach Posesdon—an anomaly Hawkstone relinquishes claim Nickel search in S. Australia Firnish nickel mine Clydach talks useful Nickel—nixed prospects for terminal markel—nixed prospects for terminal markel search Texmont's nickel venture Great Boulder nickel interests Dormiscan nickel prospects Sad —sinking at Shebandowan Nickel workers strike Free nickel price declines Widgismootha shaft sinking Inco's Wingellian nickel Nickel in Victoria Tasminex optimist report Mt. Clifford nickel strike erter data Clydach End to Le Nickel strike Free nickel privinstic report Mt. Clifford nickel Strike settled at Clydach End to Le Nickel strike Free nickel still declines BHP/Inco play it cool Tasminex Optimists  | IA I                 | J009<br>J009<br>J009<br>J009<br>J010<br>J011<br>J013<br>J013<br>J031<br>J031<br>J033<br>J037<br>J058<br>J058<br>J058<br>J059<br>J059<br>J059<br>J078<br>J060<br>J078<br>J082<br>J097<br>J097<br>J097<br>J097<br>J097<br>J097<br>J097<br>J097 | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate depoats UAR minerals development Moroccan phosphate  Spaniah Sahara phosphate  PLATINUM  Lonrho's ambitious plans Platinum mine explosion Further expansion at Impala Platinum in petrol production Laverton platinum find Platinum New platinum refinery  POTASH  Potash in Utah Potash in Utah Potash in Utah Potash in Utah  | MW IA MW IA MW IA MW IA S S P A  | J025<br>J031<br>J075<br>J250<br>M005<br>J073<br>J100<br>J243<br>J288<br>J317<br>J499<br>J528<br>M165<br>M193  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Wellington shaft-anking 1.7.C. buffer stock restrictions Selling boat for tin Sout for tin South Crofty tin one plant Tin erratic Non-ferrous metals New UK (in mine Canadian venture for Penarroya W. German stockpile Tin in reverse again USSR to reopen tin/fungaten property Robertson continuing surplus No buffer stock restrictions Joint Malaysian tin venture Tin balance Tin buffer stock activity? 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Tin still strong Contango in Tin util Tin ad tantalite Offshore tin exploration  | MW IASIASSIASSIASSIASSIASSIASSIASSIASSIASS   | J393<br>J031<br>J038<br>J059<br>J061<br>J082<br>J100<br>J103<br>J122<br>J139<br>J142<br>J150<br>J158<br>J161<br>J163<br>J161<br>J174<br>J175<br>J174<br>J178<br>J186<br>J180<br>J180<br>J180<br>J180<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190<br>J190   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges ahead Abaleen wolfram sasay Queensland wolfram deposit Overland Queensland assays Wolfram uncertain China-through a glass dardly Molybdensler(Wolframite finds Wolfram steadier Wolfram steadier Wolfram in demand Mineral treatment plant Wolfram soars  ZINC  Peruvian zinc project Turkish zinc project Turkish zinc project   | IA MW IA S IA IA S S IA IA S S IA T T  | J078<br>J133<br>J141<br>J062<br>J117<br>J117<br>J138<br>J186<br>J285<br>J292<br>J371<br>J400<br>J425<br>J453<br>J473<br>J294<br>M217   |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find at Conference of the Conference of  | IA I                 | J009<br>J009<br>J009<br>J009<br>J010<br>J011<br>J013<br>J021<br>J033<br>J033<br>J033<br>J033<br>J038<br>J058<br>J059<br>J069<br>J069<br>J073<br>J073<br>J073<br>J073<br>J073<br>J073<br>J073<br>J073   | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate  Spanish Sahara phosphate  PLATINUM  Lonrho's ambitious plans Platinum mine explosion Further expansion at Impala Platinum in petrol production Laverton platinum find Platinum New platinum refinery  POTASH  Potash price fixed Potash in Utah Potash limits lowered Progress at Sylvite of Canada   | MW IA MW IA P IA IA IA IA IA MW MW IA IA IA IA IA MW MW IA | J025<br>J031<br>J075<br>J250<br>M005<br>J073<br>J100<br>J243<br>J288<br>M165<br>M193<br>J121<br>J203<br>J250<br>M193  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Wellington shaff-anking 1.7 C. buffer stock restrictions Selling bout for tin Soviet tin survey The stock restriction of the strain of the survey The strain of the strain of the survey The strain of the strai | IA S IA S S S MW IA S IS S S S MW IA S IS S S S MW IA S IS  | J031<br>J031<br>J038<br>J039<br>J066<br>J100<br>J100<br>J103<br>J103<br>J103<br>J103<br>J103<br>J103   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges shead Abaleen wolfram assay Queensland wolfram deposit Overland Queensland assays Wolfram uncertain China—through a glass darkly Molybdenite/Wolframite finds Wolfram steadier Wolfram steadier Wolfram teamint Wolfram teamint Wolfram in demand Wolfram in demand Wolfram in demand Wolfram in demand Wolfram span  ZINC  Pennyian zinc project Lrakin zinc project Lead-zinc statistics Zinc quiet   | IA MW IA S IA IA S S IA IA T IA IA MW S  | J078<br>J078<br>J133<br>J141<br>J062<br>J117<br>J117<br>J117<br>J118<br>J186<br>J292<br>J292<br>J285<br>J292<br>J453<br>J473<br>J294<br>M217<br>J033<br>J033<br>J033<br>J033<br>J033<br>J033<br>J033<br>J03  |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find to New Leadon for Dornstean Republic Colombian nickel plans New Caledonian furnaces contract New Caledonian furnaces contract Portion of the New Caledonian furnaces contract Portion of the New Caledonian furnaces contract Portion of the New Caledonian furnaces contract New Caledonian furnaces contract New Caledonian furnaces Colombian Nickel sarch in S. Australian Finnah nickel mine Clydach talks useful Nickel-mixed prospects for terminal markets S. Australian minerals search Texmont's nickel venture Great Boulder inskel interests Dominican nickel prospect Great Boulder inskel interests Dominican nickel prospect New New York (Nickel in Victoria Indiana Nickel Indiana Nick | IA I                 | J009<br>J009<br>J009<br>J009<br>J010<br>J011<br>J013<br>J021<br>J033<br>J033<br>J033<br>J033<br>J038<br>J058<br>J059<br>J069<br>J069<br>J069<br>J073<br>J073<br>J073<br>J073<br>J073<br>J073<br>J073<br>J073                                 | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate Spansin's Sahara phosphate Spansin's Sahara phosphate PLATINUM  Lonrho's ambitious plans Platinum mine explosion Fluther expansion at Impala Platinum mine explosion Further expansion at Impala Platinum in petrol production Laverton platinum find Platinum New platinum refinery  POTASH  Potash price fixed Potash in Utah Potash sit viowered Potash in Utah Potash sylvier of Canada Japanese potash purchases Qualified approval for UK potash   | MW IA MW IA P IA IA IA IA IA IA MW   | J419  J025 J031 J031 J031 J031 J030 J0005  J073 J100 J243 J288 J288 J319 J528 M165 M193  J121 J203 J250 J3340 J429 J4446  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Wellington shaft-ainking 1.7 C. buffer stock restrictions Selling bout for tim Soviet its survey Tin falls further Recovery for tim ore plant Tin errors Tin errors Non-ferrous metals Non-ferrous metals Non-ferrous metals New UK its mine Canadian venture for Penarroya W. German stockpile Tin in reverse again USSR to reopen tin/fungsten property Robertson continuing surplus No buffer stock restrictions Joint Malaysian tin venture Tin buffer stock activity? Tin recovery by flotation Williams Harvey dispute Tin control of the stock activity Tin deals Tin and statistic Contago in the stock activity Tin data transportation Tin shift transportation Tin higher Pendarves tin mine? Mt. Wellington mine Polsis/Bollovis barter offer  | MW IA SIA SSIA SSIA SSIA SSIA SSIA SSIA S  | J031<br>J031<br>J038<br>J059<br>J061<br>J069<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J10  | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges ahead Abaleen wolfram sassy Queensland wolfram deposit Overland Queensland assays Wolfram uncertain China—through a glass darkly Molybdenslet/Wolframite finds Wolfram steadier Wolfram steadier Wolfram teatien Wolfram teatien Wolfram teatien Wolfram teatien Wolfram toernand Wolfram soarn  | IA MW IA   | J078<br>J078<br>J1078<br>J1133<br>J141<br>J062<br>J117<br>J117<br>J117<br>J117<br>J118<br>J186<br>J292<br>J292<br>J453<br>J473<br>J425<br>J473<br>J473<br>J294<br>J473<br>J294<br>J473<br>J294<br>J194<br>J194<br>J195<br>J195<br>J195<br>J195<br>J195<br>J195<br>J195<br>J195   |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find Loan for Dorniscan Republic Colombian nickel plans New Cladeonian furnaes contract Deadlock at Clydach Posedon—an anomaly Hawk stone relinquisher claim Nickel size in S. Australia Firmush nickel mite Nickel size in S. Australia Nickel-mite of prospects for terminal markets S. Australian minerals search Texmont's nickel venture Great Boulder nickel interests Dominican nickel prospect Le Nickel workers strike Free nickel price declines Widgismooltha shaff sinking Inco's Wingellian nickel Nickel in Victoria Tauminac optimis nickel Nickel in Victoria Tauminac optimis nickel Free nickel price declines Widgismooltha shaff sinking Inco's Wingellian nickel Nickel in Victoria Tauminac optimistic report Mt. Clifford nickel Strike uttelfed in Victoria Tauminac optimistic report Mt. Clifford nickel Strike uttelfed in Victoria Tauminac optimistic report Australian nickel mine order Planet nickel holdings Metals Exploration values Lamadec report Lamadec report Lamadec report Lamadec report Lamadec report of nickel production  | IA I                 | 1009 1009 1009 1009 1009 1010 1011 1013 1013   | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate depocits UAR mineral developents Moroccan phosphate Spanish Sahara phosphate  PLATINUM  Lonrho's ambitious plans Platinum mine explosion Further expansion at Impals Future mine explosion Further expansion at Impals Future phosphate  PHATINUM  PHATINUM  PROTAIN  PHATINUM  PROTAIN  POTASI  POTASI  POTASI  POTASI  JUNE  POTASI  JUNE  POTASI  JUNE  POTASI  JUNE  POTASI  JUNE  POTASI  JUNE   | MW IA MW IA P IA   | J419 J025 J031 J075 J031 J075 J1250 M005 J073 J100 J243 J1100 J248 J317 J288 J317 J499 J528 M165 M193 J121 J121 J1203 J1203 J1203 J1240 J340 J4429  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Weilington shaft-anking M. Weilington shaft-anking M. Weilington shaft-anking Straits of the strain of the str | MW IA S S IA S S IA S N IA IA S MW S IA N S M S S S S MW IA S S S S MW IA S S IA   | J031<br>J038<br>J038<br>J059<br>J061<br>J069<br>J100<br>J102<br>J103<br>J103<br>J103<br>J103<br>J103<br>J103<br>J103<br>J103   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges shead Abuleen wolfram assay Queensland wolfram deposit Overland Queensland assays Wolfram uncertain Corlina—through a glass darkly Molybdeniter/Wolframite finds Wolfram uncertain Wolfram the state of th | IA MW IA S IA S S IA T IA IA MW S IA IA S  | J078<br>J078<br>J133<br>J141<br>J062<br>J117<br>J117<br>J117<br>J117<br>J117<br>J117<br>J117<br>J11  |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find Loan for Dorniscan Republic Colombian nickel plans New Cladeonian furnaes contract Deadlock at Clydach Posedon—an anomaly Hawkstone relinquisher claim Nickel size in S. Australia Firmush nickel mite Nickel size in S. Australia Nickel-nickel prospects for terminal markets S. Australian minerals search Texmont's nickel venture Great Boulder nickel interests Dominican nickel prospect Le Nickel workers strike Free nickel price declines Widgismooltha shaff sinking Inco's Wingellian nickel Nickel in Victoria Taumranc optimism cickel Texmines optimism cickel Nickel in Victoria Taumranc optimism cickel Texmines optimism cickel Nickel in Victoria Taumranc optimism cickel Free nickel price declines Widgismooltha shaff sinking Inco's Wingellian nickel Nickel in Victoria Taumranc optimism cickel Free nickel price declines Widgismooltha shaff sinking Inco's Wingellian nickel Nickel workers strike Free nickel price declines Widgismooltha shaff sinking Inco's Wingellian nickel Nickel workers strike Free nickel price declines Widgismooltha shaff sinking Inco's Wingellian nickel Nickel workers strike Free nickel price of Taumrance optimism cickel Nickel workers strike Free nickel price Free nickel price Responsible of the Nickel Strike stelled explain Nickel workers Nickel worker | IA I                 | 1009 1009 1009 1009 1009 1010 1011 1013 1013   | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate Spanish Sahara phosphate  PLATINUM  Lontho's ambitious plans Platinum mane explosion Platinum panicol disction Laverton palioum find Platinum Palladium, rhodium and platinum Lontho platinum New platinum refinery  POTASH  POTASH  POTASH  POTASH  POTASH  Japanee potash purchases Qualified approval for UK potash Protash limits I owered Progress at Sylvite of Canada Japanee potash purchases Qualified approval for UK potash Yorkshire potash guarbases  | MW IA MW IA S S P A IA IA MW IA MW IA N IA   | J419  J025 J031 J075 J250 M005  J073 J100 J243 J288 J121 J298 M165 M193  J120 J340 J446 J465 J465 J465 J465   | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Weilington shaft-anking M. Weilington shaft-anking Straits of the strain of the st | MW IASIASSIASSIASSIASSIASSIASSIASSIASSIASS   | J031<br>J031<br>J038<br>J059<br>J061<br>J069<br>J061<br>J100<br>J102<br>J100<br>J1139<br>J1142<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J1150<br>J115 | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges shead Abuleen wolfram assay Queensland wolfram deposit Overland Queensland assays Wolfram uncertain Corlina—through a glass darkly Molybdeniter/Wolframite finds Molybdeniter/Wolframite finds Wolfram ternains quiet Abuleen wolfram Wolfram in demand Wolfram tight Mineral treatment plant Wolfram statement plant Wolfram statement plant Wolfram statement plant Wolfram statement plant User Statistics Zinc quiet Lead-zinc statistics Zinc quiet Lead-zinc statistics Zinc quiet Lead-zinc project Lead-zinc production   | IA MW IA S IA IA S S IA IA | J078<br>J078<br>J133<br>J141<br>J062<br>J117<br>J117<br>J117<br>J117<br>J117<br>J117<br>J117<br>J11  |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find to New Lead of Nickel find to New Catedonian inches plans for Dominian Republic Colombian nickel plans for Dominian furnaces contract Deadlock at Chydach However Catedonian furnaces contract Deadlock at Chydach Lanks tone relinousishes claim Nickel sarch in S. Australia Finnanh nickel mine Clydach talks useful Nickel mines der prospects for terminal markets S. Australian minerals search Texmont's nickel venture Great Boulder inches interests Dominican nickel venture Great Boulder in cikel interests Dominican nickel project Safft-sinking at Shebandowan Nepsean's first shipment to the Nickel widers strike Free nickel price declines Widgismoothis shaff sinking Inco's Wingellinian nickel Nickel in Victoria Tamines optimistic report Mrt. Clifford nickel strike Free nickel stille entitle Strike settled at Clydach End to Le Nickel strike Free nickel stille entitle Strike settled at Clydach End to Le Nickel strike Free nickel stille entitle Strike settled at Clydach End to Le Nickel strike Free nickel stille entitle Strike settled at Clydach End to Le Nickel strike Free nickel stille entitle Strike settled at Clydach End to Le Nickel strike Free nickel stille entitle Strike settled at Clydach End to Le Nickel strike Free nickel strike Free nickel strike entitle Strike settled at Clydach End to Le Nickel strike Free nickel strike End mine order Nastralian nickel project Nickel at Pykes Hill Tight supply for two years   | IA I                 | 1009 1009 1009 1009 1009 1001 1011 1013 1013   | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight?  Indian phosphate deposits  IAR control of the property of t | MW IA MW IA P IA   | J419  J025 J031 J075 J250 M005  J073 J100 J243 J100 J243 J110 J248 M165 M193  J120 J120 J120 J120 J120 J120 J120 J12  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Wellington shaft-ainking 1.7 C. buffer stock restrictions Selling bout for tim Soviet its survey Tin falls further Recovery for tim Recovery tim Recovery tim Recovery and Recovery  | MW IASSIASSIASSIASSIASSIASSIASSIASSIASSIAS   | J031<br>J031<br>J038<br>J059<br>J061<br>J069<br>J061<br>J100<br>J102<br>J100<br>J1122<br>J1139<br>J1142<br>J1158<br>J1163<br>J1174<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J1175<br>J117 | Uranium Prospecting in Greece S. African uranium plant VANADIUM Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM Wolfram surges shead Abaleen wolfram sasay Queensland wolfram deposit Overland Queensland assays Wolfram uncertain China—through a glass darkly Molybdenite/Wolframite finds Wolfram steadier Wolfram emains quiet Abaleen wolfram Wolfram tagent Molfram tight Mineral treatment plant Wolfram soars  ZINC Penuvian zinc project Lead-zinc stutistics Zinc quiet Lead/zinc in the 70's Penuvian zinc rot o Japan Lead and zinc Lead and zinc Moroccan production US/Peru/Japan venture   | IA MW IA S IA IA S S IA IA IA MW S IA IA S S IA  | J078<br>J1078<br>J1078<br>J1133<br>J1141<br>J1062<br>J1117<br>J118<br>J1186<br>J285<br>J292<br>J371<br>J147<br>J371<br>J473<br>J473<br>J473<br>J473<br>J473<br>J184<br>J185<br>J194<br>J193<br>J194<br>J193<br>J194<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193<br>J193                                      |
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| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find Loan for Dorniscan Republic Colombian nickel plans New Caledonian furnanes contract Deadlock at Clydach Posedon—an anomaly Hawkstone relinquisher claim Nickel search in S. Australia Firmuin nickel mine Firmuin nickel mine Clydach talks usefupcets for terminal markets S. Australian nimerals search Texmont's nickel venture Great Boulder nickel interests Dominican nickel project Shaft-sinking at Shebandowan Nepea's first shipment Westralian nickel project Le Nickel workers strike Free nickel price declines Widgemooltha shaft sinking Inco's Wingellian nickel Nickel in Victoria Tammens optimistic report Mt. Clifford nickel Strike steffed at Clydach End to Le Nickel strike Free nickel price Mt. Clifford nickel Strike steffed at Clydach End to Le Nickel strike Free nickel price Mt. Clifford nickel Strike steffed at Clydach End to Le Nickel strike Free nickel price Mt. Strike steffed at Clydach End to Le Nickel strike Free nickel price Mt. Strike steffed at Clydach End to Le Nickel strike Free nickel price Mt. Strike steffed at Clydach End to Le Nickel strike Free nickel price Nickel at Pykes Hill Tight supply for two years Inco buys Australian nickel   | IA I                 | 1009 1009 1009 1009 1009 1009 1001 1011 1013 1013  | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate Spanish Sahara phosphate Spanish Sahara phosphate PLATINUM  Lonrho's ambitious plans Platinum mine explosion Further expansion at Impala Platinum mine explosion Further expansion at Impala Platinum in petrol production Laverton platinum find Platinum New platinum refinery  POTASH  Potash price fixed Potash in Utah Potash inst lowered Progress at Sylvite of Canada Japanese potash purchases Qualified approval for UK potash Yakeida of Canada Japanese potash purchased Capalified approval for UK potash Threat to Caradian producers Cieveland Potash-milling plant Threat to Caradian producers Cieveland Potash-milling plant Threat to Caradian producers Cieveland Potash-milling plant Threat to Caradian producers Cieveland Potash winder drives Japanese S year potash contract   | MW IA MW IA P IA IA IA IA IA MW IA N IA  | J419  J025 J031 J075 J250 M005  J073 J100 J243 J100 J243 J110 J248 M165 M193  J120 J120 J120 J120 J120 J120 J120 J12  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Wellington shaft-anking 1.7 C. buffer stock restrictions Selling bout for tim Soviet tim survey Tin falls further Recovery for tim Soviet tim survey Tin falls further Recovery for tim South Crofty tim one plant Tim erratic New UK tim mine Canadian venture for Penarroya W. German stockpile Tim in reverse again USSR to reopen tim/fungsten property Robertson continuing surplus No buffer stock restrictions Joint Malaysian tin venture Tim buffer stock activity? Tim recovery by flotation Williams Harvey dispute Tim continuing time Tim and tantaitie Offshore tim exploration Tim higher Pendarves tim mine? M. Wellington mine Pendarves tim mine? Pendarves tim mine? Pendarves tim mine? Pendarves tim mine? Covered tim or deposit Guil Chemical Bol, smelting Tim prices bound ahead Us steel industry Tim recovers   | MW IASSIASSIASSIASSIASSIASSIASSIASSIASSIAS   | J031<br>J031<br>J031<br>J039<br>J061<br>J069<br>J061<br>J102<br>J102<br>J102<br>J112<br>J102<br>J112<br>J102<br>J10  | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges ahead Abaleen wolfram assay Queensland wolfram deposit Overland Queensland assays Wolfram uncertain China-through a glass darkly Molybdentier Wolframite finds Wolfram steadies Wolfram source  Wolfram ich wolfram wolfram ich wolfram wolfram ich wolfram | IA MWIA SIAIS SIAIT IA IA MW SIAIA S | J078<br>J1078<br>J1133<br>J1141<br>J1062<br>J117<br>J117<br>J118<br>J117<br>J118<br>J117<br>J118<br>J117<br>J118<br>J117<br>J118<br>J117<br>J118<br>J117<br>J118<br>J117<br>J118<br>J117<br>J118<br>J117<br>J118<br>J117<br>J118<br>J117<br>J118<br>J117<br>J118<br>J117<br>J118<br>J117<br>J118<br>J117<br>J118<br>J118 |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find to Loan for Dormiscan Republic Colombian nickel plans New Catedonian furnames contract Deadlock at Clydach Posedon—an anomaly Hawkstone relinquishes claim Nickel search in S. Australia Finnain nickel mine Clydach talks useful to Nickel—mixed prospects for terminal market perspects for terminal market perspects for Clydach talks useful to the Clydach talks are the Clydach talks of Clydach talks are the Clydach talks are the Clydach talks are the Clydach Terminal market perspects for the Clydach Terminal mixels prospects for the Clydach talks are the Clydach talks are the Clydach to the Clydach talks are the Clydach to the Clydach and to the Nickel strike Free nickel price declines BHP/Inco play it cool Termina Clydach and to Clydach and to Le Nickel strike Free nickel talk declines BHP/Inco play it cool Terminal Clydach and the Clyd | IA I                 | J009<br>J009<br>J009<br>J009<br>J010<br>J011<br>J013<br>J013<br>J033<br>J033<br>J033<br>J033   | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate Spanish Sahara phosphate Spanish Sahara phosphate PLATINUM  Lonrho's ambitious plans Platinum mine explosion Further expansion at Impala Platinum mine explosion Further expansion at Impala Platinum in petrol production Laverton platinum find Platinum New platinum refinery  POTASH  Potash price fixed Potash in Utah Potash inst lowered Progress at Sylvite of Canada Japanese potash gu-dhead Keeping up the pace Qualified approval for UK potash Yorkshire potash gu-dhead Keeping up the pace Caradian producers Cieveland Potash winder drives Japanese Sy evar potash contract   | MW IA MW IA P IA IA IA IA IA MW IA N IA  | J419 J025 J031 J075 J250 M005 J073 J100 J243 J1100 J243 J317 J499 J528 M193 J528 M193 J528 M193 J528 M193 J528 J529 J528 J549 J528 J549 J528 J549 J528 J549 J528 J550 J540 J550 J550 J550 J550 J550 J550  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Wellington shaft-ainking I.T.C. buffer stock restrictions Solling boat for tin South for the stock restrictions Solling boat for tin South Crofty tin ore plant Tin erratic Non-ferrous metals New UK (in mine Canadian venture for Penarroya W. German stockpile Tin in reverse again USSR to exopen tin/fungaten property Robertson continuing surplus No buffer stock restrictions Joint Malaysian tin venture Tin bullence Tin buffer stock activity? Tin necovery by floation With tin Agreement Tin still strong Contango in Tin tin fill strong Contango in Tin tin Tin Agreement Tin and tantalite Orfshore tin exploration Tin higher Pendarves tin mine? M. Wellington mine Polish, Bolivia burter offer Buffer stock—another siege Bottom of the barrel Chamber of Mines report Chamber of Mines re | MW IASIASSIASSIASNIAIAS WWW. IASISSIASSIASSIASSIASSIASSIASSIASSIASSI   | J0318<br>J0318<br>J0318<br>J0319<br>J0319<br>J0319<br>J0319<br>J102<br>J139<br>J102<br>J139<br>J103<br>J103<br>J103<br>J103<br>J103<br>J103<br>J103<br>J103  | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges ahead Abaleen wolfram sasay Queensland wolfram deposit Overland Queensland assays Wolfram uncertain China-through a glass darldy Molybdensler Wolfram inferior Wolfram steadier Wolfram wolfram Wolfram steadier Wolfram steadier Wolfram steadier Wolfram steadier Wolfram steadier Wolfram steadier Wolfram of the Wolfram Wolfram tight Mineral treatment plant Wolfram ors  ZINC  ZINC  ZINC  ZINC  Peruvian zinc project Turkish zinc project Lead-zinc statistics Zinc quiet Lead-zinc in the 70's Peruvian ore to Japan Lead and zinc Lead zinc Noroccan production Unreferenture Unreferenture Noroccan production Unreferenture | IA MW IA SIA IA S SIA IA I  | J078<br>J137<br>J133<br>J144<br>J062<br>J117<br>J138<br>J141<br>J117<br>J138<br>J118<br>J117<br>J138<br>J118<br>J117<br>J138<br>J118<br>J118<br>J118<br>J118<br>J118<br>J118<br>J118   |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find to Loan for Dormiscan Republic Colombian nickel plans New Caledonian furnames contract Deadlock at Clydach Posedon—an anomaly Hawkstone relinquishes claim Nickel search in S. Australia Finnain nickel mine Clydach talks useful Nickel—mixed prospects for terminal markel—mixed prospects for terminal markel reals search Termont's nickel worker to Clydach talks useful Nickel—mixed prospects for terminal markel reals search Termont's nickel worker of Certa Boulder nickel interests Dominican nickel prospects Le Nickel workers strike Free nickel price declines Widgismooltha shaft sinking Inco's Wingellinan nickel Nickel in Victoria Taaminex optimist report Mt. Clifford nickel Strike stetfed at Clydach End to Le Nickel strike Free nickel primistic report Mt. Clifford nickel Strike streds at Clydach End to Le Nickel strike Free nickel production Greenale nickel production Group Exp. nickel find Inno to reopen mine Great Boulder nickel Indeed Inno to reopen mine Great Boulder nickel Indeed Inno to reopen mine Great Boulder nickel  | IA I                 | J009<br>J009<br>J009<br>J009<br>J009<br>J010<br>J011<br>J013<br>J013<br>J033<br>J033<br>J033<br>J033   | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate Spanish Sabara phosphate PLATINUM  Lonrho's ambitious plans Platinum mine explosion Further expansion at Impala Platinum mine explosion Further expansion at Impala Platinum in petrol production Laverton platinum find Platinum Lourho platinum fond Platinum New platinum refinery  POTASH  Potash price fixed Potash in Utah Potash in Utah Potash is lowered Progress at Sylvite of Canada Inganese potash purchases Orbitalis of Canada Yorkshire potash gos abcad Keeping up the pace Cleveland Potash-milling plant Threat to Canadian producers Cleveland Potash winder drives Japanese Sy var potash contract India Prospects in Ethiopia  | MW IA MW IA P IA   | J419 J025 J031 J075 J250 M005 J073 J100 J243 J1100 J243 J317 J499 J528 M193 J528 M193 J528 M1949 J528 M195 M195 J528 M195 J528 J528 J549 J528 J549 J528 J549 J528 J550 J540 J550 J550 J550 J550 J550 J550 | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Wellington shaft-anking I.T.C. buffer stock restrictions Selling boat for tin South for the stock restriction South Crofty tin ore plant Tin erratic Non-ferrous metals New UK (in mine Canadian venture for Penarroya W. German stockpile Tin in reverse again USSR to exopen tin/fungaten property Robertson continuing surplus No buffer stock restrictions Joint Malaysian tin venture Tin balance Tin buffer stock restrictions Williams Harvey dispute Tin still strong Contango in Tin tin till strong Contango in Tin till Tin Agreement Tin and tantalite Offshore tin exploration Tin higher Pendarves tin mine? M. Wellington mine Polasi, Budoiva burter offer Buffer stock—another siege Bottom of the barrel Chamber of Mines report Soviet tin ore deposit Grip prices bound abead Us steel industry Tin reacts Fall and tine on the LME Mining in Cornwall Boltyian in for USSR  | MW IASIASSIASSIASNIAIASMW SIANSMSSSSMIAIASSISSMIAIASSISSMIAIASMW MIAISSISSMIAIASMW MIAISSMIAIASMW M | J031 J031 J031 J031 J031 J031 J031 J031  | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges ahead Abaleen wolfram sasay Queensland wolfram deposit Overland Queensland assays Wolfram uncertain China-through a glass dardly Molybdensler Wolfram internation Wolfram steadier  | IA MW IA S IA IA S S IA  | J078<br>J1078<br>J1133<br>J1141<br>J062<br>J117<br>J138<br>J1141<br>J117<br>J138<br>J118<br>J118<br>J119<br>J119<br>J119<br>J119<br>J119<br>J11  |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find Loan for Dorniscan Republic Colombian nickel plans New Cladeonian furnaes contract Deadlock at Clydach Possidon—an anomaly Hawk stone relinquishers claim Clydach talks useful Clydach talks useful Nickel mineral minerals search Texmont's nickel venture Great Boulder nickel nitrerests Dominican nickel project Shaftinking at Shebandowan Nepan's fifnt shipment Westerlaim nickel project La Nickel workers strike Free nickel price declines Wogenmooths shaft sinking Wog   | IA I                 | 1009 1009 1009 1009 1009 1001 1011 1013 1013   | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate Spanish Sahara phosphate  PLATINUM  Lontho's ambitious plans Platinum mine explosion Platinum in percol production Laverton platinum find Platinum New platinum find Platinum New platinum refinery  POTASI  POTASI  Potash price fixed Potash in Utah Potash limits I owered Progress at Sylvite of Canada Japanese potash purchases Qualified approval for UK potash Yorkshire potash guarda Keeping up the pace Cleveland Potash-milling plant Threat to Caradian producers Cieveland Potash mind plant Threat to Caradian producers Cieveland Potash sind crives Japanese 5 year potash contract India Prospects in Ethiopia  PUTASSIUM  Chilean Potassium   | MW IA MW IA MW IA  | J419  J025 J031 J075 J1250 M005  J073 J100 J1243 J1243 J1281 J1243 J1288 J1528 M165 J129 J129 J129 J129 J129 J129 J129 J129   | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Wellington shaft-anking I.T.C. buffer stock restrictions Selling bout for tim Soviet tim survey Tin falls further Recovery for tim Soviet tim survey Tin falls further Recovery for tim South Crofty tim one plant Tim erratic South Crofty tim one plant Tim erratic New UK tim mine Canadian venture for Penarroya W. German stockpile Tim in reverse again USSR to reopen tim/fungsten property Robertson continuing surplus No buffer stock restrictions Joint Malaysian tin venture Tim buffer stock activity? Tim balance Tim buffer stock activity? Tim recovers by flotation Williams Harvey dispute Tim canadian time Tim and tantatile Offshore tim exploration Tim langler Pendarves tim mine? Pendarves tim or deposit Guil Chemical Bol. smelting Tim prices bound ahead US steel industry Tim reacts Fall and rise on the LME Mining in Cornwall Bollvian tim for USSR Tim falls bock  | MW IAS IAS SIAS NIAIAS MWW MS IANS SSSMWIAIAS NSSMWIAS MWWIAS NSSMWIAS NSSMWWIAS NSSMWIAS NSSMWIAS NSSMWIAS NSSMWIAS NSSMWIAS NSSMWIAS NSSMWWIAS NSSMWIAS NSSMWWIAS NSSWWIAS NSS | J393  J031 J038 J031 J038 J059 J061 J070 J070 J070 J102 J102 J102 J102 J102 J102 J102 J10  | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges shead Abaleen wolfram sasuy Ouecensland wolfram deposit Overland Queensland assays Wolfram uncertain China—through a glass darkly Molybdenite/Wolframite finds Wolfram steadier Wolfram teadier Wolfram teadier Wolfram teadier Wolfram teatien Wolfram the wolfram Wolfram the wolfram Wolfram the wolfram Wolfram to demand Wolfram the wolfram Wolfram to grant Wolfram to grant User to grant Lead and the wolfram Lead and the control of the wolfram Molyperul Japan venture American Zinc output Belgian non-ferous metals Prayon's new zinc plant Lead-cinc Mattagam's new orebody Zinc uncertain US producers trim their sails Minerals and metals in 1969   | IA MW IA SIAIA S SIAIA | J078<br>J078<br>J133<br>J141<br>J062<br>J117<br>J138<br>J141<br>J162<br>J17<br>J186<br>J285<br>J292<br>J371<br>J473<br>J473<br>J033<br>J163<br>J163<br>J184<br>J185<br>J185<br>J187<br>J188<br>J189<br>J199<br>J199<br>J199<br>J199<br>J199<br>J199  |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find Loan for Dorniscan Republic Colombian nickel plans New Cladeonian furnaes contract Deadlock at Clydach Possedon-an anomaly Hawk stone relinquishes claim Nickel -maked in S. Australia Nickel -maked prospects for terminal markets S. 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Weilington shaft-anking M. Weilington shaft-anking M. Weilington shaft-anking General shaft-anking General shaft-anking General shaft-anking General shaft-anking General shaft-anking General shaft-anking South Crofty tin ore plant Tin erastic Non-ferrous metals Now-UK in ore plant Tin erastic Non-ferrous metals New-UK in ore plant General shaft-anking Canadian venture for Penarroya W. German stockpile Tin in reverse again USSR to ecopen tin/tungaten property Robertson continuing sarphan Solicia Malack estate-tions Joint Malace Tin bulance Tin bulance Tin bulance Tin tocovers Tin still strong Contango in Tin 4th Tin Agreement Tin and tantalite Orfshore tin exploration Tin higher M. 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African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges shead Abaleen wolfram assay Queensland wolfram assays Wolfram uncertain China—through a glass dackly Moly deenlief Wolfram in deposit Only deenlief Wolfram in deposit Only deenlief Wolfram in deposit Wolfram steadier Wolfram steadier Wolfram steadier Wolfram steadier Wolfram teatment plant Wolfram in demand Wolfram soars  ZINC  Peruvian zinc project Turkish zinc project Turkish zinc project Lead-zinc in the 70's Peruvian ore to Japan Lead and zinc Lead and zinc Lead and zinc coutput Belgian non-ferrous metals Prayon's new zinc plant Lead-zinc in the worebody Zinc uncertain US producers trim their sails Wincrasla and metals in 1959 Canadian zinc output Progress at Sturgeon Lake   | IA MW IA SIAIA S SIAIA | J078<br>J078<br>J133<br>J141<br>J162<br>J117<br>J138<br>J141<br>J186<br>J285<br>J371<br>J187<br>J294<br>J425<br>J473<br>J187<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189<br>J189   |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find Loan for Dornaisean Republic Colombian nickel plans New Cladedonian furnaces contract Dendlock at Chudani Nickel entered the Chudanian furnaces contract Dendlock at Chudani Hawkatone relinoushes claim Nickel sarch in S. Australia Finnah nickel mine Clydach talks useful Nickel mine clydach talks useful Nickel mine clydach talks useful Cream Houlder mine relinoushes claim Nickel sarch mine relinoushes claim Nickel sarch minerals search Texmont's nickel venture Cream Boulder in sickel interests Dominican nickel venture Texmont's nickel venture Texmont's nickel venture Texmont's nickel venture Westralian nickel prospects Le Nickel workers strike Free nickel price declines Windgemonthal shaft sinking Inco's Wingellian nickel Strike settled at Clydach End to Le Nickel workers Tamminex optimistic report Mt. Clifford nickel strike Free nickel stille Free nickel stille Exploration values Lamadec report Lamandec report Expansion of nickel production Greenvale nickel project Nickel at Pykes Hill Tight supply for two years Inco buya Australian nickel Nickel in Bottwana Research on laterites Pacific Nickel Greenvale plans production   | IA I                 | J009 J009 J009 J009 J009 J009 J001 J011 J01  | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate  Spanish Sahara phosphate  PLATINUM  Lontho's ambitious plans Platinum mine explosion Further expansion at Impala Platinum in petrol production Laverton platinum find Platinum Palladium, rhodium and platinum Lonrho platinum New platinum refinery  POTASH  Potash price fixed Potash in Utah Potash in Utah Potash in Utah Potash in Itah Apanese poinsh purchases Qualified approval for UK potash Yorkshire potash go-ahead Keeping up the pace Cleveland Potash-milling plant Threat to Caradian producers Cleveland Potash winder drives Japanese 5 year potash contract India Prospects in Ethiopia  PUTASSIUM  Chilean Potassium Potassium-Argon dating  | MW IA MW IA P IA   | J419 J025 J031 J073 J100 J075 J250 M005 J073 J100 J100 J100 J100 J100 J100 J100 J10   | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Wellington shaft-ainking 1.7.C. buffer stock restrictions Selling bout for tin South of the stock restriction South Croffy tin ore plant Tin erraits Non-ferrous metals New UK (in mine Canadian venture for Penarroya W. German stockpile Tin in reverse again USSR to reopen tin/fungsten property Robertson continuing surplus No buffer stock restrictions Joint Malaysian tin venture Tin bullen Tin buffer stock activity? Tin recovery by flotation Williams Harvey dispute Tin necesses Ton Contango in Tin 4th Tin Agreement Tin and tantalite Offshore tin exploration Tin higher Pendarves tin mine? M. Wellington mine Polial, Bullivis barter offer Buffer stock—another siege Bottom of the barrel Chamber of Mines report Soviet tin or deposit Gulf Chemical Boil, smelting Tin prices bound shead US steel industry Fall and tiae on the LME Mining in Cornwall Boltvian tin for USSR Tin falls back Proposals for tin agreement An eventful year Ciccular jig for RTZ dredge   | MW IASIASSIASNIAIAS MW SIASSIASNIAIAS MW SIASSIASNIAIAS MW MM M   | J031 J031 J031 J031 J031 J031 J031 J031  | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges ahead Abaleen wolfram sassy Queensland wolfram deposit Overland Queensland assays Wolfram uncertain China—through a glass darkly Molybdenslet/Wolframite finds Wolfram steadier Wolfram steadier Wolfram steadier Wolfram the wolfram Wolfram the wolfram Wolfram the wolfram Wolfram to demand Wolfram to demand Wolfram to demand Wolfram to the wolfram Wolfram to the wolfram User wolfram Wolfram to the wolfram Wolfram Wolfram to the wolfram Wolfra | IA MW IA SAIA SSAIA SSAIA IA SAIA SSAIA SSAIA SSAIA SSAIA SSAIA IA SAIA SMW MW IA  | J078<br>J1078<br>J1133<br>J1141<br>J1062<br>J1117<br>J118<br>J118<br>J118<br>J118<br>J119<br>J119<br>J119<br>J119  |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find Loan for Dorniscan Republic Colombian nickel plans New Cladeonian furnaces contract Deadlock at Chydach Hawkstone relinoushes claim Nickel sarch in S. Australia Finnah nickel mine Clydach talks useful Nickel mine between the contract Cream of the contract Cream of the contract Texmont's nickel venture Cream Boulder in sickel venture Great Boulder nickel interests Dominican nickel venture Great Boulder at Shebandowan Nepsean's first bilgment Le Nickel workers strike Free nickel project Shaff- sinking at Shebandowan Nepsean's first bilgment Le Nickel workers strike Free nickel project Strike settled at Clydach End to Le Nickel strike Strike settled at Clydach End to Le Nickel strike Free nickel strike | IA I                 | 1009 1009 1009 1009 1009 1001 1011 1013 1013   | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? 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Wellington shaft-anking 1.7.C. buffer stock restrictions Soling boot for tin Soviet tin surveys The strain strain strain strain Recovery for tin South Croffy in ore plant Tin erratic Non-ferrous metals New UK (in mine Canadian venture for Penarroya W. German stockpile Tin in reverse again USSR to reopen tin/fungsten property Robertson continuing surplus No buffer stock restrictions Joint Malaysian tin venture Tin buffer stock activity? Tin recovery by flotation Williams Harvey dispote Tin necessary by flotation Williams Harvey dispote Tin necessary Tin still strong Uffair tin tin still strain Uffair tin exploration Tin higher Pendarves tin mine? M. Wellington mine Polish/Boldvis burter offer Buffer stock—another siege Bottom of the barrel Chamber of Mines report Soviet tin ore deposit Gulf Chemical Bol, smelting Tin prices bound ahead US steel industry Tin reacts Tin faile back Proposals for tin agreement An eventful year Circular jig for RTZ dredge Calm on the LME G.S.A. Sales in View?  | MW IAS SIAS SIAS NIAIAA SMW SIANS MS SSSMW IAS SIAS SWW IAS NIAS MW SIANS MS SSSMW IAS SWW IAS NIAS MW MM SWW MW SWW W W W   | J031<br>J031<br>J031<br>J038<br>J039<br>J060<br>J060<br>J100<br>J060<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100<br>J100   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges shead Abaleen wolfram assay Queensland wolfram deposit Overland Queensland assays Wolfram uncertain China—through a glass darkly Molybdenite/Wolframite finds Wolfram steadier Wolfram steadier Wolfram teamint Wolfram teamint Wolfram in dermand Wolfram tight Mineral treatment plant Wolfram steadier Turkish zinc project Turkish zinc project Turkish zinc project Lead-zinc statistics ZINC  Penuvian zinc project Lead-zinc statistics Zinc quiet Lead/zinc in the 70's Penuvian zinc project Lead and zinc Lead and zinc Moroccan production US/Peru/Japan venture American Zinc output Belgian non-ferous metals Prayon's new zinc plant Lead-zinc Mattagami's new orebody Zinc uncertain US producers trim their sails Minerals and metals in 1969 Canadian zinc output Forgress at Sturgeon Lace Bal Sturgeon Lace Bal Sturgeon Lace End and rise on the LME Lead-zinc Lead-zinc End and rise on the LME Lead-zinc Lead-zinc End and rise on the LME Lead-zinc on the LME Lead-zinc on the LME Lead-zinc output Lead-zinc End zinc on the LME Lead-zinc on the LME  | IA MW S IA IA S S IA IA IA IA S IA IA IA S S IA IA IA IA S S IA IA IA S S S IA IA IA S S S IA IA IA S S S IA  | J078<br>J1078<br>J1133<br>J1141<br>J1062<br>J1117<br>J118<br>J118<br>J118<br>J119<br>J119<br>J119<br>J119<br>J119  |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find Loan for Dorniscan Republic Colombian nickel plans New Cladeonian furnaes contract Deadlock at Clydach Possedon—an anomaly Hawkstone relinquishes claim Nickel sarch in S. Australia Nickel sarch in S. Australia Nickel sarch in S. Australia Nickel in Nickel vorte Nickel in Nickel in Nickel Nickel in Victoria Taminas optimise report Nickel in N | IA I                 | 1009 1009 1009 1009 1009 1009 1001 1011 1013 1013  | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate  Spanish Sahara phosphate  PLATINUM  Lontho's ambitious plans Platinum mine explosion Further expansion at Impala Platinum in petrol production Laverton platinum find Platinum Palladium, rhodium and platinum Lontho platinum New platinum refinery  POTASH  Potash price fixed Potash in Utah Potash in Utah Potash in Utah Potash in Itah Appanee potash purchases Qualified approval for UK potash Yorkshire potash go-ahead Keeping up the pace Cleveland Potash milling plant Threat to Caradian producers Caredian Potash winder drives Japanees of teath winder drives Japane | MW IA MW IA P IA   | J419 J025 J031 J073 J100 J075 J250 M005 J073 J100 J100 J100 J100 J100 J100 J100 J10   | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Weilington shaft-anking M. Weilington shaft-anking M. Weilington shaft-anking Straits of the strait of the strain of the strait of the strain of the str | MW IAS IAS SIAS SIAS SIAS SIAS SIAS SIAS S   | J393 J031 J031 J031 J031 J031 J031 J031 J03  | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges ahead Abaleen wolfram assay Queensland wolfram deposit Overland Queensland assay Gueensland wolfram factor Overland Queensland assay Wolfram uncertain China-through a glass darkly Molybdentier Wolframite finds Wolfram steadier Wolfram steadier Wolfram steadier Abaleen wolfram Wolfram steadier Wolfram steadier Usfram steadier Usfram steadier Usfram steadier Usfram steadier Usfram steadier Usfram steadier Wolfram to demand Wolfram to dem | IA MW IA S IA IA S S IA IA S S IA IA IA S S IA IA IA S S IA IA S S IA IA IA IA S IA  | J078 J078 J078 J133 J141 J062 J117 J138 J141 J161 J285 J371 J186 J285 J371 J187 J371 J381 J391 J183 J183 J183 J183 J183 J183 J183 J18  |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find Loan for Dorniscan Republic Colombian nickel plans New Cladeonian furnaes contract Deadlock at Clydach Possedon—an anomaly Hawk stone relinquishes claim Nickel sarch in S. Australia Clydach talks in S. Australia Clydach talks are contract Clydach Clyda | IA I                 | 1009 1009 1009 1009 1009 1009 1001 1011 1013 1013  | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate Spanish Sahara phosphate  PLATINUM  Lontho's ambitious plans Platinum mine explosion Fluther expansion at Impala Platinum in petrol production Laverton platinum find Platinum Palladium, rhodium and platinum Lonrho platinum New platinum refinery  POTASH  Potash price fixed Potash in Utah Potash in Utah Potash in Utah Potash in Itah Apanese poisah purchases Qualified approval for UK potash Yorkshire potash go-ahead Keeping up the pace Cleveland Potash-milling plant Threat to Caradian producers Cleveland Potash winder drives Japanese Sylvar potash winder drives Japanese Sotash contract India Prospects in Ethiopia  PUTASSIUM  Chilean Potassium Potassium-Argon dating  PYRITES  S. African pyrite mine RIHODIUM   | MW IA MW IA P IA   | J419  J025 J031 J075 J250 M005  J073 J100 J1250 J1261 J1261 J263 J186 J186 J186 J186 J186 J186 J186 J186  | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Weilington shaft-arising I. Hellington shaft-arising Soviet its survey.  Tin falls further Recovery for tin South Crofty tin ore plant Tin eratic Non-ferrous metals New UK tin mine Canadian venture for Penarroya W. German stockpile Tin in reverse again USSR to cropen tin/fungaten property Robertson continuing surplus No buffer stock nestrections John Malaysian tin venture Tin buffer stock nestrections John Malaysian tin venture Tin buffer stock nestrections John Malaysian tin venture Tin to buffer stock nestrections John Malaysian tin venture Tin to buffer stock nestrections John Malaysian tin venture Tin to buffer stock nestrections John Malaysian tin venture Tin to buffer stock nestrections John Malaysian tin venture Tin to buffer stock nestrections Tin higher Pendarves buf miner Medical Stock of the propert Medical Stock of the propert Medical Stock of the propert Soviet tin ore deposit Gulf Chemical Bol. smelting Tin prices bound ahead US steel industry Tin reacts Fall and rise on the LME Mining in Cornwall Boltvian tin for USSR Tin falls back Proposale for fin agreement Arising tin time? Boltwian tin for USSR Tin falls back Broke Hilling's Tin Search Bolivia/Soviet Agreement Cornish Mining  | MW IASIASSIASSIASSIASSIASSIASSIASSIASSIASS   | J393  J031  J132  J133  J134   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges ahead Abaleen wolfram sasay Queensland wolfram deposit Overland Queensland dasays Wolfram uncertain China-through a glass darkly Molybdensler Wolfram remains wolfram steadier Wolfram soars  ZINC  ZINC  ZINC  ZINC  ZINC  Peruvian zinc project Turkish zinc project Lead-zinc statistics Zinc quiet Lead/zinc in the 70's Peruvian ore to Japan Lead and zinc Moroccan production US/PPu/Japan venture American Zinc coutput Belgian non-ferrous metals Prayon's new zinc plant Lead-zinc Mattagami's new orebody Zinc uncertain US producers trim their sails Minerals and metals in 1969 Canadian zinc output Progress at Siurgeon Lake BMC to sell Finnish zinc End/zinc takes stock Indian Zinc Group for Poland Increasing ted price   | IA MW IA IA IA S N IA S S IA IA IA IA S S IA IA IA IA S S IA IA IA IA IA S S IA IA IA IA IA S S MW IA IA IA S S N IA T   | J078<br>J133<br>J144<br>J062<br>J117<br>J138<br>J141<br>J141<br>J162<br>J117<br>J138<br>J163<br>J163<br>J163<br>J163<br>J163<br>J163<br>J163<br>J163   |
| Impact on nickel consumption Nickel find at Wannaway Mineral claims for Weatherby Newmetal nickel find Loan for Dorniscan Republic Colombian nickel plans New Cladeonian furnaces contract Deadlock at Chydach Hawkstone relinousishes claim Nickel sarch in S. Australia Finnah nickel mine Clydach talks useful Nickel mine clydach talks useful Nickel mine for the mineral search Texmont's nickel venture Great Boulder nickel interests Dominican nickel venture Great Boulder nickel interests Dominican nickel project Shaff-sinking at Shebandowan Nepsan's first bipment Lee Nickel work of the Nickel Free nickel project Shaff-sinking the Shebandowan Nepsan's first bipment Lee Nickel work of the Nickel Free nickel project Strike settled at Clydach End to Le Nickel strike Free nickel strike Free nickel stille Strike settled at Clydach End to Le Nickel strike Free nickel stille Free nickel strike Free nickel stille Expansion of nickel production Greenwale nickel project Lixhal at Pykes Hill Tight supply for two years Inco buys Australian nickel Nickel in Oktowana Greenwale nickel project Nickel at Pykes Hill Tight supply for two years Inco buys Australian nickel Nickel in Oktowana Research on laterites Greenwale place force majeuer He longer term future Mid-East Minerals Oil and Minerals nickel values   | IA I                 | 1009 1009 1009 1009 1009 1009 1001 1011 1013 1013  | Palladium, rhodium and platinum  PERLITE  Czech expansion  PHOSPHATE  Phosphate exports in sight? Indian phosphate deposits UAR minerals development Moroccan phosphate Spanish Sahara phosphate PLATINUM  Lonrho's ambitious plans Platinum mine explosion Further expansion at Impala Platinum mine explosion Further expansion at Impala Platinum in petrol production Laverton platinum find Platinum Palladium, rhodium and platinum Lomrho platinum for Potala in Utah Potash price fixed Potash in Utah Potash is lowered Potash price fixed Potash is lowered Potash price fixed Potash price fixed Potash price fixed Potash in Utah Potashid paproval for UK potash Yorkshire potash ga-shead Keeping up the pace Cleveland Potash-milling plant Threat to Canadian producers Cleveland Potash winder drives Japanese Syear potash contract India Prospects in Ethiopia  PHTASSIUM Chilean Potassium Potassium-Argon dating  PYRITES S. African pyrite mine RHODIUM Rhodium and iridium prices cut   | MW MW IA MW IA   | J419 J025 J031 J073 J100 J075 J250 M005 J073 J100 J100 J100 J100 J100 J100 J100 J10   | Canada's new producer  TIN  Malacca Straits prospecting Stocks falling-prices rising M. Wellington shaff-ainking 1.7 C. buffer stock restrictions Selling bout for the Soviet in survey Tin falls from the South Croffy in ore plant Tin errate Non-ferrous metals New UK in mine Canadian venture for Penarroya W. German stockpile Tin in reverse again USSR to reopen tin/fungsten property Robertson continuing surplus No buffer stock restrictions Joint Malaysian tin venture Tin buffer stock activity? Tin recovery by flotation Williams Harvey dispute Tin necessory Tin study storing Contargo in exploration Tin higher Pendarves tin mine? Mt. Wellington mine Offshore tin exploration Tin higher Pendarves tin mine? Mt. Wellington mine Polasi/Bollovia barter offer Buffer stock—another siege Bottom of the barrel Chamber of Mines report Soviet tin ore deposit Guif Chemical Bol, smelting Tin prices bound ahead US steel industry Tin reacts Fall and rise on the LME Mining in Cornwall Bolivian tin for USSR Tin falls best in View? Broken Hill's Tin Search Bolivia/Soviet Agreement Cornish Mining Tim Marka Time   | MW IASIASSIASSIASSIASSIAISSIAISSIAISSIAIS  | J031<br>J031<br>J031<br>J038<br>J059<br>J060<br>J100<br>J060<br>J100<br>J060<br>J100<br>J100<br>J100   | Uranium Prospecting in Greece S. African uranium plant  VANADIUM  Union Carbide vanadium discovery US producers optimistic GSA sells vanadium  WOLFRAM  Wolfram surges shead Abaleen wolfram assay Queensland wolfram deposit Overland Queensland assays Wolfram uncertain China—through a glass darkly Molybdenite/Wolframite finds Wolfram steadier Wolfram steadier Wolfram teamint Wolfram teamint Wolfram the wolfram Wolfram the wolfram Wolfram the wolfram Wolfram the wolfram Wolfram to to Japan Lead and zinc Lead and zinc Morecan production US/Peru/Japan venture American Zinc output Belgian non-ferrous metals Prayon's new zinc plant Lead-zinc Mattagami's new orebody Zinc uncertain US producers trim their sails Minerals and metals in 1969 Canadian zinc output Belgian non-ferrous metals Prayon's new zinc plant Lead-zinc Mattagami's new orebody Zinc uncertain US producers trim their sails Minerals and metals in 1969 Canadian zinc forup for Poland   | IA MW SIAIAS SIAS SIAT IA IA SIAIAS SIAIA  | J078<br>J1078<br>J1133<br>J1141<br>J1062<br>J1117<br>J118<br>J118<br>J118<br>J119<br>J119<br>J119<br>J119<br>J119  |

| Countries   |          |                | Australian ore for UK<br>Mid-East Minerals<br>Oil and Minerals nickel values | IA<br>IA  | 1 1          | 1206<br>1223<br>1223 | Belgian non-ferrous metal production                               | IA       | J293         | Valley Copper Mines<br>Utica Mines<br>Canadian zinc output             | 1.       | IA<br>IA |
|---|----------|----------------|--|-----------|--------------|----------------------|--|----------|--------------|--|----------|----------|
| ALGERIA   |          |                | Mitsui-Ravensthorpe prospecting<br>W. Australian bauxite                     | IA<br>IA  | J            | 1223                 | Prayon's new zinc plant  | IA       |              | Canadian iron ore for Japan<br>Sumitomo to buy Canadian ore            | 1.       | A        |
| Powell Duffryn Algerian order                                     | IA       | J321           | Unimet Pty, in Australia<br>Tipperary Land/Holland Al talks                  | IA<br>IA  | 1            | 225                  | BOLIVIA  |          |              | Anglo Rouyn<br>Progress at Sturgeon Lake                               | L        | A        |
| Promising mineral project<br>Promising mineral potential          | MV<br>P  |                | Australian iron ore for Scotland<br>Hamersley Himet contract                 | IA<br>IA  | 3            | 227<br>228           | Argentina backs pipeline   | MY<br>IA |              | Gulf Oil uranium project   | 1/       | A        |
|   |          | 784,37         | Norway's Australia mission   | 1A        | 1            | 229                  | Cerro to buy Bolivian bismuth<br>U.N.D.P. mining projects          | IA       | J182         | Copper-dual pricing under fire<br>Let-out for Lornex                   |          | W        |
| ANGOLA  |          |                | Freeport's schedule Another iron ore prospect                                | IA<br>MV  | W J          | 229<br>243           | Bolivian Antimony sales<br>Polish/Bolivia barter offer             | IA<br>IA | J185<br>J345 | New tantalum producer<br>Granduc copper project                        |          | AW<br>A  |
| More Angolan iron ore<br>Angola and Mozambique                    | IA<br>IA | J119<br>J248   | Outlook for mineral exports<br>Japanese concern over policies                | MW        | N J:         | 245<br>245           | Gulf Chemical Bolivian smelting<br>Antimony refining in Bolivia    | IA       | J370<br>J370 | Manitoba's Centennial mine<br>Manitoban mineral prospects              | L/       |          |
| ARGENTINE   |          |                | Leopold Minerals uranium   | IA<br>IA  | J:           | 248<br>248           | Bolivian tin for USSR  | LA       | J452<br>J495 | Canadian coal sales  | 1/       | A        |
|   |          |                | Conah prospect<br>Westmex and Western Mining                                 | JA        | 12           | 248                  | Development of Bolivian ores<br>Bolivian iron report               | IA<br>IA | 2550         | Great Whale iron ore<br>St. Lawrence rising output                     |          | 4W       |
| Kennecott in Argentina<br>Argentine Smelter project               | IA<br>IA | J601           | Vultan nickel search<br>Major tale deposit                                   | IA<br>IA  |              | 249<br>249           | Bolivian shaft contract<br>Bolivia/Soviet agreement                | IA       | J573<br>J575 | New silica arce Atlas Explorations                                     | M        | fW<br>A  |
| Argentine sinter plant<br>Argentina backs pipeline                | M        | J029<br>/ J054 | Control in mineral processing  | IA<br>IA  | J2           | 250<br>250           | Humphreys' Botswana Co   | 1A       | J598         | Ocean mining   | LA       | A        |
| Argentinan minerals find  | IA       | J058           | Giant shovel export Offshore minerals control                                | IA        | 32           | 251                  | BOTSWANA   |          |              | Churchill Copper<br>Anvil Mining expansion                             | I.A      |          |
| Argentine development loans<br>Somisa production expansion        | IA<br>IA | J101<br>J138   | Nuttall's antimony contract<br>Robe River jumps the hurdle                   | IA<br>MW  | J2           | 25 I<br>265          | Nickel in Botswana   | MW       | 1197         | Deeper workings at Campbell Red<br>Lake                                | 1.4      | Á        |
| Al Plant for Argentina  | IA       | J159           | Carr Boyd assay results  | IA        | 12           | 274                  | Botswana R.S.T. production plans                                   | IA<br>IA | J370<br>J597 | Ungava asbestos mine   | L        | A        |
| S Africa-Argentina pact? UK interest in Argentina                 | IA<br>IA | J248<br>J249   | Dutch/US bauxite talks<br>Hastings copper find                               | IA<br>IA  | 12           | 274                  | Botswana Prospecting Botswana project                              | P        | M093         | Japanese potash purchases<br>Canadian loan for India                   | 1/       | A        |
| Argentine steel production<br>Argentine aluminium smelter         | IA.      | J397<br>J527   | Japanese exploration<br>Robe River project                                   | IA<br>IA  | J2           | 74                   | HRAZIL   |          |              | Canada - Australia pact? Jeffrey's expansion                           | M        | A<br>fw  |
| Argentine iron ore project  | IA       | J548           | fron ore royalties raised  | IA        | 32           | 276                  |  |          | 1120         | Stelco expansion?  | EA       | A        |
| Mineralogical studies<br>Argentine coal plant                     | IA<br>M  | J598<br>M139   | Kwinana strike situation<br>Hlmet for Marubeni-Mitsubishi                    | IA<br>IA  |              | 76                   | Brazil plans Al. plant tender<br>Brazilian iron ore for Japan      | IA<br>IA | J120<br>J345 | Rexspar Minerals fluorite<br>Copper Range production plans             | IA<br>IA |          |
| AUSTRALIA   |          |                | Poseidon reports  Backs to the wall for gold mining                          | MW        | / J2         | 87                   | U.S. Steel/Brazil Iron Ore Co.<br>Fagersta acquires Brazil factory | IA<br>M  | J397<br>J422 | SCAN Explorations formed<br>Furukawa/Alwin copper project              | IA       | A        |
|   |          |                | Leichardt copper values  | IA        | 12           | 92                   | Australian interest in Brazil                                      | IA       | J427         | Caribou mine on schedule   | IA       | 4        |
| Greenvale nickel project<br>Nickel find at Wannaway               | IA<br>IA | J138<br>J009   | Mary Kathleen uranium  Australian mineral exports                            | IA<br>IA  | J2           | 93                   | South American contracts   | IA       | J497         | Floating dollar<br>Mining looks askance at floating dollar             | MY<br>MY |          |
| dueensland uranjum values   | IA       | J009           | Australian iron ore for Italy  | IA        | 12           | 94                   | BULGARIA   |          |              | Davis-Keays reports  | M        | W        |
| fineral claims for Weatherly<br>uust-Wide pegs claims             | IA<br>IA | J009           | Australian offshore legislation<br>Preserving the heritage                   | IA<br>N   | J2:          | 05                   | Indian iron ore for Bulgaria                                       | IA       | J550         | Sumi tomo Canada nickel venture<br>Threat to Canadian potash producers | IA<br>IA | 1        |
| ewmetal nickel find<br>SW Railways feasibility study              | IA<br>IA | J009<br>J010   | Robe River<br>Laverton Platinum find   | MW        | J3           | 10                   | BURMA  |          |              | Japanese 5 year potash contract<br>Amax's Sturgeon lake progress       | IA       | 1        |
| entinel iron ore export study                                     | IA       | J011           | Tin and tantalite  | IA        | 13           | 17                   |  |          |              | Borealis' Yukon Options  | IA       | 1        |
| amersley expansion plan<br>K.N. Steel mill venture                | LA<br>LA | J011<br>J013   | Progress at North Flinders<br>Utah Construction's Queensland mine            | IA        | J3<br>J3     |                      | USSR to re-open tin/tungaten property<br>Burmese ore deposits      | MW       | J174<br>J182 | Hydra's Sturgeon Lake clain Sileurian's Molybdenum                     | IA       |          |
| oseidon—an anomaly  | N        | J021           | Antimony mine shaft  | IA.       | J3:          | 21                   |  | -/4      | - 1-1/4      | Copper range expansion   | IA       |          |
| hosphate exports in sight?<br>eko abandons Attunga                | MW<br>IA | J025<br>J031   | Australian contracts for Fluor<br>Persistent steel boom                      | IA<br>N   | J3:          |                      | CANADA   |          |              | Texmont agreement<br>Cominco at Sturgeon lake                          | IA       |          |
| asmanian iron ore find<br>awkstone relinquishes claims            | IA       | J031           | Surveys and Mining's exploration   | IA        | 134          | 43                   | Impact on nickel consumption                                       | MW<br>MW | J004         | James Bay Columbium<br>Canadian Loan for Shashi                        | 1A       |          |
| estmoreland assay results   | IA<br>IA | J031           | Great Boulder ore reserves Australian iron ore project                       | IA<br>IA  | J34          |                      | \$200 million coal pipeline<br>Cassiar Asbestos expansion          | IA       | J004<br>J010 | Valley Copper Mines  | IA<br>IA |          |
| ultus Pacific's results<br>ickel search in S. Australia           | IA       | J033<br>J033   | Blair Athol Coal   | IA        | 134          | 43                   | Eagle Gold increases capacity                                      | IA<br>MW | J011<br>J027 | Highland Valley<br>Pelletising at Wabush                               | P        |          |
| panese interest in steaming coal                                  | IA<br>MW | J055           | New antimony project<br>Mount Isa expansion plans                            | IA<br>IA  | 134<br>134   | 44                   | B.C. protest on tax reform<br>B.C. record production               | IA       | J035         | Drill hole probe   | M        |          |
| ining Act review<br>astralian bar extended                        | MW<br>EA | J055<br>J058   | Samin copper operation<br>Rise in Nepean nickel production                   | IA<br>IA  | J34          | 44                   | Texmont's nickel venture<br>Expansion at Renzy                     | IA       | J058<br>J060 | Island copper<br>Falconbridge's plans                                  | P        |          |
| Australian minerals search  | IA       | J058           | fron ore contracts   | P         | MO           | 009                  | Shaft sinking at Shebandowan                                       | IA       | 1060         | Churchill Falls project  | A        |          |
| t. Isa shaft sinking contract<br>eat Boulder nickel interests     | IA<br>IA | J059<br>J059   | What next with Poseidon?<br>Mechanisation at Mt. Isa                         | P         | MO           |                      | Canadian mineral output falls Asbestos expansion plans             | IA<br>MW | J060<br>J073 | CHILE  |          |          |
| max alumina plan  | IA       | J061           | Robe River development   | IA.       | 136          | 67                   | Record moly production   | MW       | J074         |  |          |          |
| epean's first shipment<br>inops iron ore                          | MW<br>IA | J073<br>J078   | Carr Boyd report<br>Mt. Clifford values                                      | IA<br>IA  | J36          |                      | Joint Pine point mining venture<br>B.C. tungsten mine              | IA<br>IA | J079<br>J080 | Chilean Copper Mines Act signed<br>More Chilean copper                 | IA<br>EA |          |
| estralian nickel prospects  ppper find by Westmoreland            | I.A.     | J078           | Iron ore development policy  | MW        | 136          | 52                   | Brameda coal plans   | IA       | J080         | Chilean copper production<br>Chilean mineral discovery                 | IA<br>IA |          |
| ble's rutile find   | IA<br>IA | J078<br>J078   | Antimony sales<br>Stating the facts  | IA<br>MW  | J37          |                      | Stelco's new steel complex<br>Geco strikers reject offer           | IA       | J081<br>J081 | Chilean iron ore mine  | IA       |          |
| t. Lyell shaft sinking contract<br>ing Island Scheelite expansion | IA<br>IA | J079<br>J079   | Rationalisation in W.A. mining<br>Two big rail projects                      | MW        | J39          |                      | Denison's uranium agreement<br>Uranium—demand deferred             | IA<br>N  | J081<br>J089 | C.I.P.E.C. now official<br>I.F.C. aids Chilean copper venture          | IA       |          |
| am's antimony mine  | IA       | J080           | Iron ore pipeline proposed   | IA        | 139          | 95                   | Sulphur market   | MW       | 1091         | £10.6m Chilean - UK agreement  | IA       |          |
| S.W. antimony study<br>idgiemooltha shaft sinking                 | IA<br>IA | J097<br>J097   | Australian antimony Alcan Australian expansion                               | IA<br>IA  | J39          |                      | Iron ore output down<br>St. Lawrence seaway                        | MW       | J091<br>J094 | Chile iron ore for Japan<br>Chile—Rumanian agreement                   | IA<br>IA |          |
| ongreach copper<br>co's Wingellina nickel                         | IA       | J097<br>J097   | Antimony - growing potential   | MW        | 141          | 19                   | Canadian bismuth   | IA       | J100         | Chuquicama ta furnace fault  | IA<br>IA |          |
| ckel in Victoria  | IA       | J097           | Tasminex anomalies<br>Kratos Uranium   | IA<br>IA  | J42          |                      | Highland Valley copper discussions<br>Inco's Manitoba agreement    | IA<br>IA | J101<br>J102 | Mining Arica sulphur<br>Chile iron ore reduction plant                 | IA       |          |
| aminex optimistic nickel report<br>. Clifford nickel              | IA<br>IA | J100           | Northern Antimony Murumba venture<br>Abaleen wolfram                         | IA<br>IA  | J42          |                      | Faro mine ore reserves<br>Uranium on Baffin Island                 | IA       | J117<br>J118 | Chuqui production recovery<br>Preserving the heritage                  | IA<br>N  |          |
| kands Mather in Victoria  | 1A       | J100           | Australian interest in Brazil  | IA        | J42          | 7                    | Canadian molyv alues   | IA       | J118         | El Teniente expansion plans  | IA       |          |
| llina antimony deposit<br>stralian mineral sands                  | IA<br>IA | J100           | Asbestos mill for N.S.W.<br>Woodsreef plans production                       | IA<br>MW  | J42<br>J44   |                      | Heath Steele mill modernisation<br>Potash price fixed              | IA<br>IA | J119<br>J121 | Mitsui copper deal<br>Corfo mineral developments                       | IA<br>IA |          |
| ntract at bauxite plant   | IA       | 1102           | Funds for Robe River   | MW        | 144          | 5                    | Growing protest on tax reform                                      | MW       | J131         | El Salvador workers reject offer                                       | IA       |          |
| i.P. Inco play it cool<br>minex disappoints                       | MW       | J113<br>J114   | Longreach prospects Austim joint venture                                     | IA.<br>IA | J44<br>J44   |                      | Loan for Eagle exploration<br>Canadian fluorspar                   | IA<br>IA | J138<br>J139 | Rio Blanco copper<br>Chile iron ore development                        | IA<br>IA |          |
| stralian nickel mine order  |          | J116           | Option exercised near Kalgoorlie   | IA        | J44          | 9                    | Canada/Japan uranium deal  | IA.      | J140         | Chile expansion unchecked  | N        |          |
| net nickel holdings<br>aleen wolfram assay                        |          | J117<br>J117   | Mid-East nickel results Queensland alumina expansion                         | IA<br>IA  | J449         |                      | Fears on the copper front<br>Preston completes drilling            | MW<br>LA | J154<br>J157 | Copper exporters meeting<br>First Chilean iron ore concentrates        | IA       |          |
| tals Exploration values<br>eensland wolfram deposit               |          | J117           | Western Mining to buy nickel concs.  | IA        | 145          |                      | Prospecting in Ontario   | IA       | J157         | Rio Blanco copper mine output<br>South American contracts              | IA       |          |
| nadec Exploration report  | IA       | J117           | Antimony sales<br>Canada-Australia pact?                                     | IA<br>IA  | J45:         | 2                    |  | IA<br>MW | J158<br>J173 | Peruvian and Chilean copper  | IA       |          |
| R. Queensland joint venture<br>working of copper orebody          |          | J118<br>J118   | Australian bauxi te development<br>Offshore oil search in W.A.               | MW<br>IA  | J46          |                      | Guardian Mines exploration   | IA<br>IA | J182<br>J182 | Mineral Exploration in Chile<br>Chilean Potassium                      | JA<br>IA |          |
| arra alumina refinery   | IA       | J120           | Lamadec Australian progress  | IA        | J470         | 0                    | Inco to reopen mine  | IA       | J183         |  |          |          |
| stralian/W. German agreement<br>sxite contract figure             |          | J121<br>J121   | Consolidated Exploration<br>Expansion at Groot Eylandt                       | IA<br>IA  | J470         |                      |  | IA<br>IA | J183         | CHINA  |          |          |
| veys' contract with Japan   | EA.      | J121           | Kambalda drilling  | 1A        | J47          | 1                    | Davis-Keays 1,000 ton/day  | IA<br>IA | J203<br>J206 |  | N        |          |
| nersley major expansion approved<br>strolling the fever           | MW       | J131<br>J131   |  |           | 147<br>147   |                      | Uranjum mine sale halted   | MW       | J215         |  | N<br>MW  | ,        |
| for Woodrow in Australia<br>rland Queensland assays               |          | J138<br>J138   | Scooptrams for Mt. Isa   | IA        | 3472<br>3473 | 2                    |  |          | J219<br>J219 | China dictates antimony  | T        |          |
| tern Copper assays  | IA       | J138           | Cleveland -Cliffs nickel claims  | IA        | J493         | 3                    | McGill research institute  | IA       | J223         | COLOMBIA   |          |          |
| envale nickel project<br>triction on mining tenements             |          | J138<br>J140   |  |           | J493<br>J494 |                      |  | A        | J223<br>J223 | Colombian nickel plans   | [A       | J        |
| tralian ilmenite for Japan  | EA.      | J140           | W.A. mineral production  | IA        | J495         | 5                    | Kerr-Addison Yukon property  | A        | 1225         | Hydraulicking on Basuru River  | IA.      | J        |
| Newman iron ore<br>ore sales outlook                              |          | J141<br>J141   |  |           | J497<br>J521 |                      | Legislation for copper smelter                                     | MW       | J229<br>J243 | The Colombian Ministry of Mines  | MF       | J        |
| kel at Pykes Hill<br>C. buys Australian iron ore                  |          | J153<br>J153   | First shipment from Kwinana  | [A        | J525         | 5                    |  | A        | J248<br>J250 |  | IA.      | 1        |
| ganese consumption steady   | MW .     | J153           |  |           | J525<br>J525 |                      | Rio Algom uranium contract   | A        | J251         |  | IA       | 1        |
| fic Copper gold strike<br>as Gulf-Hanwright agreement             |          | J157<br>J158   | Pacific Copper - Cadia prospect  | IA .      | J525         | 5                    |  | WW<br>WW | J265<br>J267 | CONGO (KINSHASA)   |          |          |
| estos development in NSW  | IA .     | 1159           | Hastings Exploration results   | IA        | J527<br>J547 | 7                    | Salt mine expansion  | A        | J274         |  | 10       |          |
| ord coal exports<br>rseas Labour for Mt. Isa                      |          | 1160<br>1160   | Widgiemooltha mining operation   | IA        | J547<br>J547 | 7                    |  |          | J267<br>J292 |  | IA<br>IA | 3        |
| buys Australian nickel  | IA .     | 1160           | Mineral claims ban lifted  | IA        | J548         | 3                    | Threat to Ontario's gold mines                                     | A        | 1293         |  | 1A       | J        |
| up Expl. nickel find<br>tall exploration programme                |          | 1182<br>1182   | Queensland Alumina contract  | IA .      | J549<br>J550 | )                    | Preserving the heritage  | A        | J293<br>J305 | CUBA   |          |          |
| cel near Wingham  | IA .     | 182            | Northern Mining's Iron Find  | IA .      | 1571         |                      | Falconbridge plans threefold                                       |          | 1309         |  | Mile     |          |
| ling report<br>d find in N. Territory                             |          | 1182<br>1182   | Aust. Min. Science Centre  |           | J573<br>J574 |                      |  | W.       | J309         |  | MW<br>P  | b        |
| tralia-Indonesia pact   | IA J     | 184            | Benefits to Aust, Industry   | MW .      | 1591         |                      | Highmont tonnages improved   | A.       | J317         | CZECHOSŁOVAKIA   |          |          |
| nt Boulder nickel<br>ing bursary                                  |          | 1184           |  |           | J597<br>J599 |                      | Mattagami's new orebody  | A .      | J317<br>J319 |  |          |          |
| t-Japanese-US project   | IA J     | 202            | Pechiney's Copper Search   | MF .      | J615         |                      | Sherman's \$1 million expansion                                    | A        | J319<br>J321 |  | MW       | 3:       |
| fic Copper gold values  | IA J     | 202            | Bituminous coal  | Γ !       | M165<br>M217 |                      | Brenda Mines' contract   | A .      | J321         |  |          |          |
| envale plans production   | IA J     | 203            | Hamersley's Himet plant  | P !       | M335         | 5                    | Progress at Sylvite of Canada A                                    | IW .     | J340<br>J344 | DENMARK  |          |          |
|   | IA J     | 203            | Good news for Robe River Nickel at Greenvale                                 |           | M337<br>M257 |                      | Copper Range expansion 1 Mitsui/Kaiser Canadian link 1             | 4        | J344<br>J344 | Prospecting off Greenland  | A        | J.       |

| REP. of DOMINICA  |            |                   | HUNGARY   |                |                          |                            | Concern over Australian policies<br>Japan opposes Okinawa plant      |          | MW<br>IA   | J245<br>J249 | Angola and Mozambique<br>New developments                     | 1        | IA J248<br>P M25 |
|---|------------|-------------------|---|----------------|--------------------------|----------------------------|--|----------|------------|--------------|---|----------|------------------|
| Loan for Dominican Republic<br>Dominican nickel project                               | 1          | A J010            | Hungarian bauxite   |                | A                        | J101<br>J398               | Japanese steel merger  |          | IA         | J250<br>J250 |   |          | Mas              |
| Drilling in Dominica  | 1          | A J059<br>A J292  | Hungarian bauxite/alumina<br>Two gatherings   | 1              | A                        | J527                       | Japanese Al. shortage<br>Giant shovels export                        | 1        | IA         | J250         | NICARAGUA   |          |                  |
| Falconbridge's threefold expansion<br>Toledo's Dominican venture                      |            | AW J309<br>A J367 | Smelting expansion  | 1              | MW                       | J541                       | New Japanese aluminium smelter<br>Indonesian Al. refinery            |          | IA<br>IA   | J250<br>J250 | Nicaragan copper  | 1        | A J160           |
| Falconbridge's plans  | P          |                   | INDIA   |                |                          |                            | Robe River jumps the hurdle<br>Japanese exploration                  |          | MW<br>IA   | J265<br>J274 | N. ZEALAND  |          |                  |
| ECUADOR   |            |                   | India/Japan iron ore agreement  |                | A                        | J013<br>J031               | US/Japan pellet venture  | 1        | IA         | J275<br>J288 | NZ iron sand for Japan  | 1        | A J140           |
| Interest in Ecuador copper  | 1,         | A J009            | Indian Phosphate deposits<br>Mylaram copper deposits  | 1.             | A                        | J031                       | US coal prices accepted<br>US/Peru/Japan venture                     |          | WW         | J292         | Alcan NZ expansion<br>New Zealand iron sands                  | 1        | A J275<br>A J321 |
| Asphalt in Ecuador<br>Ecuador copper agreement soon                                   | 1          |                   | Maharashtra's prospecting progress<br>Vishakapatnam port development  | i L            |                          | J031<br>J033               | Nippon Steel Corporation<br>Copper exports urged                     |          | A          | J292<br>J293 | McIntyre halts NZ operations                                  | 1        | A J343           |
| Japanese - Ecuador copper rights  | 1/         | A J225            | Kudremukh iron ore study  | 1/             | A                        | 1078                       | Indian iron ore for Japan  | 1        | A          | J294         | Iron sand venture<br>Japan/NZ ilmenite talks                  |          | A J548           |
| Ecuadoran copper deposits<br>Japan/Ecuador copper survey                              | 1/         |                   | Indian ferrous imports Indian copper find   | L              |                          | J081<br>J097               | Japanese/Ecuador copper survey<br>Canadian iron ore for Japan        |          | A          | J317<br>J321 | New Zealand Oil   |          | A J571           |
| ETHIOPIA  |            |                   | Khetri project progresses<br>Goan bauxite for Japan   | 1/             |                          | J101<br>J102               | Persistent steel boom<br>Japan manganese import estimate             | I.       |            | J337<br>J345 | NIGER   |          |                  |
|   |            |                   | Indian manganese exports  | 1/             | A                        | 1141                       | Brazilian iron ore for Japan   | 1.       | A          | J345         |   |          |                  |
| India Prospects in Ethiopia   | 1/         | J597              | Indian refractories plant<br>Agnigundala lead-copper project  | M              |                          | J160<br>J198               | Mitsui copper deal<br>Swaziland iron ore for Japan                   | I.       |            | J345<br>J345 | Japanese uranium venture<br>Niger uranium plant               | 1.       | A J276           |
| EIRE  |            |                   | Indian iron ore find<br>Indian coal output  | 1/             |                          | J202<br>J205               | Canadian iron ore for Japan<br>Sumitomo to buy Canadian ore          | L        |            | J345<br>J345 | Uranium deal finalised  | N        | W J520           |
| Irish smelter at Cork   | 1A         |                   | Indian diamond development  | 1/             | 4                        | J223                       | Manganese seabed study   | 1.       | A          | J367         | NIGERIA   |          |                  |
| Cork mineral prospect<br>Planning permission for frish smelter                        | IA<br>IA   |                   | Simonacco Indian contract<br>Indian aluminium   | M              |                          | J247<br>J276               | Loan for US company<br>More SA iron ore for Japan                    | I.       | A.         | J392<br>J429 | Chamber of Mines report                                       | M        | W J362           |
| Diamond synthesis plant<br>Progress at Avoca  | I.A<br>E.A | 1427              | Molybdenite/wolframite finds<br>Indian copper deposits  | IA<br>IA       | 1                        | J292<br>J292               | Okinawa smelter<br>Alcan Australian expansion                        | 1/       |            | J398<br>J399 | USSR aid to Nigeria   | 1/       |                  |
| West's Irish contract   | IA         | 3527              | Indian iron ore for Japan   | IA             | 1                        | J294                       | Canadian coal sales  | 1/       | 4          | J399         | NORWAY  |          |                  |
| Northgate Bid Details   | M          | F J608            | Indian bauxite exploration<br>Canadian loan for India   | IA<br>IA       |                          | J317<br>J429               | Japanese potash purchases<br>SA coal sales to Japan                  | 1/       |            | J429<br>J429 |   |          |                  |
| FINLAND   |            |                   | Bailadila development   | IA             | 1                        | J450                       | Japan joins steel plant tender                                       | 1/       | 1          | J451         | Norwegian Al. production rise<br>Norway's Mission to Australi | 1/       |                  |
| Finnish nickel mine   | IA         | 1033              | Nickel ore in India Mysore smelter prospects  | IA             | 1                        | J525<br>J526               | Decrease in Japan iron to US<br>US coal export order                 | 1/       | 1          | J451<br>J451 | Norwegian aluminium exports                                   | 1/       | 1293             |
| Finnish nickel force majeure  | IA         | J206              | Iron ore for Czechoslovakia<br>New Indian ore berth   | IA             |                          | J528<br>J599               | Uranium sales offers Japanese copper exports                         | IA<br>IA |            | J473<br>J497 | Borregaard copper mine<br>Norwegian ilmenite expansion        | 1/       |                  |
| B.M.C. to sell Finnish zinc<br>Outokumpu new mine                                     | IA<br>IA   | J399<br>J451      | Mining in India   | M              |                          | M227                       | Lead/zinc takes stock  | N        |            | J517         | North Sea oil strike  | IA<br>M  | W J520           |
| New Finnish Mine  | IA         | 1573              | Agnigundala lead  | P              |                          | M251                       | Uranium deal finalised<br>Ecomonies in steelmaking                   | M        | W          | J520<br>J521 | Major oil strike<br>Norwegian copper deposits                 | IA.      |                  |
| Outokumpu Oy in Chile<br>On-line computers  | IA<br>M    | J573<br>M145      | INDONESIA   |                |                          |                            | Bintan alumina plant<br>Demag Japan/French orders                    | IA<br>IA |            | J527<br>J548 | PACIFIC IS.   |          |                  |
| FRANCE  |            |                   | West Irian copper contract  | IA             |                          | J059                       | Japan/Spain steel venture  | I.A      |            | J548         |   |          |                  |
|   |            |                   | West Irian copper sales<br>Freeport loan for Indonesian coppe   | IA<br>IA       |                          | J102<br>J138               | Japan/NZ ilmenite talks<br>African bauxite deposits                  | IA       |            | J548<br>J548 | New Caledonian furnaces contract<br>Le Nickel workers strike  | IA       |                  |
| Mokta iron ore and maganese<br>New French steel plant                                 | IA         | J120<br>J125      | Indonesian bauxite exports  | IA             |                          | 1160                       | Japanese Al. production  | JA       |            | 1548         | End to Le Nickel strike                                       | IA       | J102             |
| French steel production   | IA         | J139              | Australia Indonesia pact<br>Pacific Nickel  | IA             |                          | J184<br>J202               | Japanese 5 year potash contract<br>Mitsubishi/Atlas copper agreement | IA<br>IA |            | 1550<br>1550 | New Caledonian nickel<br>Fiji bauxite mining                  | IA       |                  |
| French distributor for Holmans<br>Minerals and Metals in 1969                         | MW         | J205<br>V J341    | Indonesian Al refinery  | IA             |                          | J250                       | Soviet nickel for Japan  | IA       |            | 1550<br>1550 | Japanese/Okinawa Al. Mission                                  | IA       | J184             |
| Demag Japanese/French orders<br>French five-year steel plan                           | IA         | J548<br>J548      | Offshore tin exploration agreed<br>Development in Sumatra   | IA<br>IA       |                          | J319<br>J526               | SA/Japan copper contract<br>Mt. Newman/Japanese ore price            | IA       | 1          | 1550         | Predicted Bougainville expenditure<br>New Le Nickel company   | IA       |                  |
| Excess aluminium production   | IA         | J549              | Bintan alumina plant<br>Broken Hill's tin search  | IA             |                          | J527<br>J573               | Japanese technical aid to Papua<br>Japan Metal Centre                | JA<br>MV |            | 550<br>568   | Records in nickel production<br>New Guinea exploration        | MV<br>EA |                  |
| Japanese/French Nickel talks  | IA         | J573              | Ertsberg copper project   | MW             | ٧.                       | 1589                       | Rival Al. smelter projects   | MV       | W J        | 1569         | Endeavour/Interstate agreement                                | IA       | J525             |
| GABON   |            |                   | Exploration in Indonesia  | P              | 1                        | M007                       | Japanese Bauxite Expl. Co.<br>Singapore/Japan Steel Mill             | IA<br>IA |            | 573<br>573   | New Caledonian nickel<br>Considerable mineral potential       | IA<br>MV |                  |
| U.N.D.P. mining projects  | IA         | J182              | IRAN  |                |                          |                            | Furukawa/Alwin agreement   | IA       | J          | 5/3          | Loan for Bougainville Copper                                  | IA       | J369             |
|   |            |                   | Mineral surveys in Iran   | IA             | 3                        | 1100                       | Comalco's Japanese Subsidiary<br>Japanese E.C.S.C. Steel Talks       | IA       |            | 573<br>575   | Bougainville strike continues<br>Bougainville start-up date   | IA<br>IA | J399<br>J427     |
| GERMANY (W)   |            |                   | First aluminium smelter   | P              |                          | M339                       | Study tour   | IA<br>MW |            | 575<br>590   | Bougainville strike ends<br>New Guinea exploration            | IA<br>IA | J429<br>J450     |
| Kaiser Preussag Al link<br>German metallised pellet plant                             | IA<br>IA   | J011<br>J037      |   |                |                          |                            | Al faster growth<br>Japanese Moly Plant                              | IA       | J          | 599          | Panama copper deposits  | 1A       | J495             |
| New metal projects  | MW         | J055              | IRAQ  |                |                          |                            | Weighing ore samples<br>Copper markets in Japan                      | M        |            | 1137<br>1514 | Solomon Islands metal venture<br>New Caledonia nickel exports | IA       | J525<br>J528     |
| Aluminium figures<br>More Polish coal for W. Germany                                  | IA<br>IA   | J060<br>J081      | Sulphur mine in Iraq  | IA             | J                        | 1158                       |  | D        |            | 10.14        | Japanese technical aid to Papua                               | IA       | J550             |
| Australian/W. German agreement  | IA         | J121              | ITALY   |                |                          |                            | LESOTHO  |          |            |              | PAKISTAN  |          |                  |
| Utah Mining uranium agreement<br>W. German stockpile programme                        | IA         | J140<br>J161      |   |                |                          |                            | Lesotho diamond expansion  | 14       | J          | 159          |   |          |                  |
| West German stockpiles  | IA         | 1276              | Italian steel expansion Australian iron ore for Italy   | IA<br>IA       |                          | 227<br>294                 | LIBERIA  |          |            |              | Exploring Arabian Sea<br>Pakistan to buy Malaysian iron ore   | A<br>IA  | M282<br>J528     |
| German consortium formed<br>West German Stockpiles                                    | M<br>IA    | J291<br>J294      | Prospecting off Greenland<br>Southland Mining Italian interests   | IA             |                          | 493<br>526                 | Massive new mine   | MW       | 14         | 591          | Pakistan Steel Study  | IA       | 1598             |
|   | IA<br>IA   | J343<br>J399      | Compressed air systems  | A              |                          | 1181                       | Ore handling at Nimba  | A        |            | 168          | BANGARA   |          |                  |
| Zambia seeks W. German investment   | IA         | J450              | IVORY COAST   |                |                          |                            | MADAGASCAR   |          |            |              | PANAMA  |          |                  |
|   | IA         | J472<br>J526      |   |                |                          | 200                        |  |          |            | .22          | Panama gold placer<br>Norlex Mines Panama agreement           | IA<br>IA | J058<br>J157     |
| German iron ore mine  | D          | M079              | Ivory Coast mineral production  | IA.            | 1.                       | 228                        | Madagascar bauxite   | IA       | 34         | 127          | Ceylon's cement output up                                     | M        | M309             |
|   | M<br>A     | M142<br>M391      | JAPAN   |                |                          |                            | MALAWI   |          |            |              | Ironsands for Japan   | IA       | J575             |
| ANFO in W. Germany  | D          | M428              | S. African iron ore agreement   | IA             | 31                       | 101                        | Lonrho's Malawi Bauxite  | IA       | 15         | 98           | PERU  |          |                  |
| GHANA   |            |                   | India/Japan iron ore agreement<br>Japanese minerals investment  | IA<br>IA       |                          | 013                        |  |          |            |              |   |          |                  |
| Government attitudes  | MW         | J217              | No let up in expansion  | N              |                          | 050                        | MALAYSIA   |          |            |              | Cuajone copper contract signed<br>Toquepala strike ends       | IA       | J011<br>J013     |
|   | IA         | 1276              | Japanese aluminium smelter plan<br>Steel mixed prospects  | IA<br>N        |                          | 061                        | Malaysian copper venture go ahead                                    | IA       |            | 111          | CIPEC aims at stabilisation                                   | MW       | J026             |
| African bauxite deposits  | IA         | J548              | Japan/Morocco prospecting agreemen  | t IA           | 10                       | 078                        | Malacca Straits prospecting rights<br>Joint N. Malaysian tin venture | IA       | JI         | 83           | Expanding copper role<br>Peruvian zinc project                | MW<br>IA | J025<br>J033     |
| GREECE  |            |                   | Stainless steel without nickel<br>Japanese for Zambia   | IA             |                          | 101                        | W. Malaysia iron ore<br>First round for 4th tin agreement            | IA<br>MW | 11         | 84           | Michiquillay copper plans<br>Japan/Peru mining mission        | IA<br>IA | J059<br>J140     |
|   |            |                   | Highland Valley copper discussions  | IA             | 31                       | 101                        | Malaysian mining negotiations  | IA.      | J4         | 23           | Peruvian ore imported to Japan                                | IA       | J185             |
|   | IA<br>IA   | J033<br>J081      | Japanese cobalt mission<br>Goan bauxite for Japan   | IA<br>IA       | 11                       | 102                        | An eventful 1969<br>Pakistan to buy Malaysian iron ore               | IA       | J4         |              | Japanese/Peruvian mining proposal<br>Peru copper projects     | IA<br>IA | J227<br>J275     |
| HIDB/Cerro Corp. agreement  | IA<br>IA   | J118<br>J139      | UK diesel engines for Japan   | M<br>IA        |                          | 16                         | Malaysian antimony smelter   | IA       | 16         | 01           | US/Peru/Japan venture   | IA       | J292             |
| Greek aluminium plant   | IA.        | J159              | Japanese copper requirements  Japan steel for Spain   | IA             | 11                       | 21                         | MEXICO   |          |            |              | Cerro strike spreads<br>Peru's new mining law                 | IA<br>MW | J345<br>J361     |
| Al plant for Greece   | A          | J225<br>J267      | Surveys' contract with Japan<br>Ashmore/Yawata link   | IA             | 31                       | 39                         |  | 1.5      | J0.        |              | Cerro strike over<br>Peru's new mining panel                  | IA<br>IA | J370<br>J399     |
| Cerro's Greek investment  | A          | J450              | Japan/Peru mining mission   | IA             | 31                       | 40                         | Mexican copper prospect<br>Denison in Mexico                         | IA       | J0.        |              | Angio's Peru venture  | IA       | J423             |
|   |            | J451<br>J525      | Japanese chrome sales<br>NZ iron sand for Japan   | IA<br>IA       | Ji.                      | 40<br>40                   | New Mexican silver mine  | lA       | J2         |              | Peru guarantees Asarco rights<br>Peruvian and Chilean copper  | IA<br>IA | J429<br>J527     |
| Greek nickel deposits 1.  | A          | J574              | Canada/Japan uranium deal   | IA<br>IA       | J1                       | 40<br>40                   | Mexican sulphur negotiations<br>Silver vein in Mexico                | IA       | J34        | 67           | Japan's Peruvian Venture                                      | IA       | J599             |
|   |            | J574<br>J597      | Less Japanese steel for US  | IA             | 11                       | 41                         | Avino Mines<br>Mexican silver  | IA<br>IA | 139        |              | Hydraulic transportation                                      | M        | M143             |
| Oil off Ghana L   | A          | 1597              | Japanese aluminium sale   | IA             | 110                      |                            | Selco/Avino exploration  | IA       | J54        | 47           | PHILIPPINES   |          |                  |
| Skalistiri expand   |            | M335              | New Caledonian nickel   | IA             | 110                      | 61                         | New Mexican silver company<br>Mexican mineral output                 | IA<br>IA | J54        |              | I.C.I. Philippines company                                    | IA       | J471             |
| GUATEMALA   |            |                   |   |                | 11                       |                            | Mexican copper prospect  | IA       | 103        |              | Joint copper venture  | IA       | J395             |
| Guatemalan mining interests 1/  | A          | J183              | Japanese uranium venture  | IA             | 118                      | 83                         | MOROCCO  |          |            |              | Mitsubishi/Atlas copper agreement<br>Koke Extracting Plant    |          | J550<br>J615     |
| GUINEA  |            |                   | Joint Malaysian tin venture   |                | 118                      |                            |  |          |            |              | Philippine mining complex                                     |          | M091             |
|   |            |                   | Soviet -Japanese trade pact   | IA             | 118                      | 84                         | Japan/Morocco prospecting agreement<br>Moroccan rocksalt discovery   | IA IA    | J07        |              | DOL 1810  |          |                  |
|   |            | J182<br>J548      |   |                | J18                      |                            | Morocco ore development  | IA       | J18        | 4            | POLAND  |          |                  |
| U.N.D.P. mining projects 1/   |            | 2,740             | Chile iron ore for Japan  | IA             | 118                      | 85                         | Moroccan copper agreement<br>Moroccan iron mine                      | IA<br>IA | J20<br>J20 |              |   |          | J081<br>J158     |
| African baux ite deposits   |            |                   |   |                | J18                      |                            | Moroccan rocksalt  | IA       | J22        | 3            | Expansion in Eastern Europe                                   | MW       | J310             |
| African bauxite deposits  |            |                   |   | IA             | J20                      | 02                         | Moroccan phosphate<br>Moroccan production                            |          | J25<br>J27 |              | Polish/Bolivia barter offer                                   |          | J345<br>M077     |
| African bauxite deposits I/ GUYANA Impels in Guyana '/A                               |            | J078              | Malara Al mala in france  |                |                          |                            |  |          |            |              |   |          |                  |
| African bauxite deposits 1/4 GUYANA   |            | J078<br>J471      | Kaiser Al. unit in Japan<br>Japanese steel exports  | IA .           | 120                      | )5                         | Lead in Morocco  |          | J49        | 4            | 1.S. furnace  | M        | M145             |
| African bauxite deposits  GUYANA  Impala in Guyana  Alcan's future in Guyana  IA      |            |                   | Kaiser Al. unit in Japan<br>Japanese steel exports<br>Japanese steel mission  | IA .           | J20<br>J20               | )5<br>)6                   | Lead in Morocco<br>W. German aid to Morocco                          |          | J49<br>J52 | 4            | I.S. furnace<br>Breakdown of rubber                           | M<br>D   |                  |
| African bauxite deposits I/ GUYANA Impela in Guyana Alcan's future in Guyana HOLLA'ND |            | 1471              | Kaiser Al. unit in Japan Japanese steel exports Japanese steel mission Alcoa refinery plan Prospects in iron ore trade                                | IA .           | J20<br>J20<br>J20<br>J21 | 05<br>06<br>06<br>17       |  |          |            | 4            | I.S. furnace<br>Breakdown of rubber<br>Polish metal mine      | M<br>D   | M145<br>M152     |
| African bauxite deposits  GUYANA  Impala in Guyana  Alcan's future in Guyana  IA      |            |                   | Kaiser Al. unit in Japan Japanese steel exports Japanese steel mission Alcoa refinery plan Prospects in iron ore trade Japanese—Ecuador copper rights | IA<br>IA<br>MW | J20<br>J20<br>J20        | 05<br>06<br>06<br>17<br>25 | W. German aid to Morocco   |          | J52        | 6            | I.S. furnace<br>Breakdown of rubber                           | M<br>D   | M145<br>M152     |

| RHODESIA  New Mining Act Bright outlook for mining          | 1        | WW         | J004<br>J053<br>J097 | Iberian Peninsula<br>Marquesado iron ore mine<br>Marquesado<br>Sixth Mining Congress | AAAA      | M35<br>M35<br>M37 | Port Talbot ore terminal opens<br>Qualified approval for UK potash<br>Mining and conservation in Cornwall<br>Yorkshire potash go-ahead | M<br>M   | J45          | Loan for US company Gold –a special commodity Tin–US steel industry | S        | W 1392<br>upp May<br>1415 |
|---|----------|------------|----------------------|--|-----------|-------------------|--|----------|--------------|---|----------|---------------------------|
| Rhodesian prospecting activity<br>Rhodesian oil search      |          | A          | J493                 | Madrid Mining Exhibition  SPANISH SAHARA   | A         | M37:              | Cementation acquire exploration firm<br>Keeping up the pace  | N        | J46          | Susquehanna uranium mill  | 1/       |                           |
| RUMANIA   |          |            |                      |  | n         | 1400              | Delay on Irish Sea licences<br>£500,000 export order   | LA       | 147          | US miners eye rising profits  | I/<br>N  |                           |
| Chile/Rumanian agreement                                    |          |            | J202                 | Spanish Sahara phosphate   | P         | M00:              | UK opencast mining<br>Call for wider interests   | M        |              | fron ore pelletising plant  | M<br>L/  |                           |
| Expansion in Eastern Europe<br>Rumania—lignite mining       |          | /W         | J310<br>M030         | SURINAM  |           |                   | Gas exploration licences<br>Northern Ireland mineral developmen  | IA       |              | US coal export order  | LA<br>LA | J451                      |
| SAUDI ARABIA  |          |            |                      | Surinam bauxite talks  | 1/        | J547              | Milling plant for Cleveland Potash<br>Jenkins coal plant contract  | 1A       | J495         | Tax on lead   | M        | W J467                    |
| Kaiser joins Alba   |          | rw.        | J417                 | S. W. AFRICA   |           |                   | Irish Sea licences   | IA<br>IA | 1547         | Alumina plant for Costa Rica  | IA<br>IA | 1472                      |
| Saudi Arabia search   | E        |            | M152                 | Etosha testing mineral complex<br>S. W. African copper mine planned                  | LA        |                   | Cleveland Potash winder drives<br>Plant for UK ore terminals   | IA       | J549         | US copper industry analysis   | IA<br>M  |                           |
| SENEGAL   |          |            |                      | S.W. African base metals prospect  | 1.4       | J058              | UK/USA Pollution Agreement<br>Under New Management   | IA<br>N  | J575<br>J585 | Molybdenum strength through<br>R and D                              | N        | 1485                      |
| Copper indications in Senegal                               | L        | A          | J097                 | Tsumeb's new mine<br>Beach mining technique  | M<br>P    | M092              | Cornish Mining<br>Head Wrightson Steel Contract  | IA       | J599<br>J601 | Houthakker reports on copper<br>Large-diameter tunnel boring        | M        |                           |
| SIERRA LEONE  |          |            |                      | Oamitis copper   | М         | M415              | On-stream analytical studies<br>Reduction in coal mine accidents   | MA       | M06          | 7 Anaconda copper find  | IA<br>IA |                           |
| Sierra Leone bauxite  | 12       | 4          | J035                 | SWAZILAND  |           |                   | Cable handler<br>Modified power support  | M        | M13<br>M14   | Two gatherings  | IA       | 1527                      |
| Sierra Leone diamond negotiation<br>Lonrho Moves In         | s L      | 4          | J452<br>J568         | Mining's major role<br>Swaziland iron ore for Japan                                  | M         |                   | National Wage agreements   | R        | M21          | US steel demand   | IA       | 1527                      |
| SINGAPORE   |          |            |                      | SWEDEN   | 1.74      | J345              | Highlands minerals   | D        | M23          | Phase IV at Henderson   | IA<br>M3 | W J542                    |
|   |          |            |                      |  |           |                   | U.S.A.   |          |              | US producer re-activated<br>Smelter changes pending                 | M        | W J543                    |
| Singapore/Japan Steel Mill                                  | L        | 1          | J573                 | Swedish iron ore strike continues<br>Swedish strike over                             | IA<br>IA  | J120              | Expanding pellet plant capacity World coal consumption in 1980   | MY       |              | GSA cobalt and magnesium offer<br>Uranium search in Wyoming         | IA<br>IA | 1511                      |
| SOUTH AFRICA  |          |            |                      | LKAB strike continues<br>Swedish mining equipment for USS                            | IA<br>R M | J081<br>J179      | Cities Service copper prospects<br>Texas uranium venture   | IA       | J009<br>J010 | UK/USA Pollution Agreement<br>New Gold stockpile bill               | IA<br>IA |                           |
| S. African iron ore agreement                               | LA       |            | 1010                 | Swedish iron ore strike spreads<br>Swedish steel consumption 1969                    | IA<br>IA  | J185<br>J205      | Inland's new iron ore mine<br>Earth Resources copper programme   | IA       | J010         | US copper industry<br>G.S.A. sales policy criticised                | N<br>MV  | J586<br>W J590            |
| Swaartkloof fluorspar venture<br>Accident at Kloof          | LA       | . 1        | 1033                 | Swedish steel industry   | IA<br>N   | 1249              | Toledo copper venture  | IA       | 1011         | Copper from Tyrone  | P        | MOOS                      |
| Lonrho's ambitious plans                                    | I.A<br>M | W J        | 1073                 | Tide turning for iron ore<br>Stora steel plants                                      | IA        | J261<br>J294      |  | IA       | J022<br>J031 | Radio wave system<br>Engineers in US                                | T        | M146<br>M150              |
| S. African pyrite mine<br>Swaartkloof fluorspar             | I.A      | j          | 1079<br>1079         | Aitik copper expansion plans<br>Swedish iron ore price                               | IA<br>IA  | J369<br>J473      | Amax to suspend uranium operations<br>Loan for US Coal company   | IA<br>IA | J033<br>J033 | Kennecott's plans   | P        | M337                      |
| S. African gold records<br>Platinum mine explosion          | I.A      | 1          | 100                  | LKAB record ore shipments<br>Rio Algom's Contract                                    | IA<br>IA  | J528<br>J575      | New Idria's mercury plans  | IA       | J035<br>J035 | U.S.S.R.  |          |                           |
| S. African coal contract                                    | IA       | 1          | 1102                 | One of Sweden's Giants<br>Rubber in Swedish mills                                    | ME        | J608              | Primary metals outlook   | IA       | J037         | Caucasian mercury complex   | IA       | 1010                      |
| Premiums deferred<br>Blair Hoist for East Driefontein       | M        | 3          | 116                  |  | D         | M151              | GSA aluminium sales  | IA<br>IA | J037<br>J037 | Soviet asbestos plant<br>USSR manganese production                  | IA<br>IA | J011<br>J037              |
| Anglo's major coal contract<br>New furnace for Amcor        | IA<br>IA |            | 138                  | SWITZERLAND  |           |                   |  | MA       | J053<br>J058 | Soviet tin survey   | IA       | J100                      |
| South African uranium<br>Zululand mineral deposits          | IA       | J          | 139                  | Swiss uranium search<br>Swiss aluminium production                                   | IA<br>IA  | J292<br>J549      | Ranchers antimony property   | IA       | J060         | Soviet ferrous production<br>Soviet metals                          | IA<br>IA | 1119                      |
| SA coal for Japan   | IA       | J          | 160                  | TAIWAN   | 175       | 2545              | U.S. mineral production  | IA       | 1090<br>1090 | Soviet nickel exports<br>Self-criticism in Russia                   | IA<br>N  | J161<br>J169              |
| Elsburg intersects reef  S. African metal industries        | IA<br>IA | J          | 182<br>184           |  |           |                   | Asarco copper smelter shutdown<br>Eye on the US stockpile  | IA<br>N  | J061<br>J069 | USSR to re-open tin/tungaten<br>property                            | MW       |                           |
| Anglo computer service<br>Luipaardsviei to close            | IA<br>IA |            | 204<br>204           | Taiwan steel mill  | IA        | J037              | Steel-mixed prospects  | N<br>MW  | J070<br>J074 | Swedish mining equipment for USSI                                   |          | 1179                      |
| Prospects in iron ore trade                                 | M        | V J        | 217<br>229           | THAILAND   |           |                   | Growing mineral traffic on waterways   | MW       | 1074         | Engineering projects in USSR<br>Soviet-Japanese trade pact          | IA<br>IA | J183<br>J184              |
| Symposium on openpit mines<br>Further platinum expansion    | IA       | V J        | 243                  | Mining in Thailand   | A         | M257              | Union Carbide vanadium discovery   | IA<br>IA | J078<br>J078 | Kazakhstan development<br>Soviet coal industry expansion            | MW       | J198<br>J275              |
| lydraulic hoisting of ore<br>S. Africa-Argentina pact?      | M<br>IA  | J          | 246<br>248           | TURKEY   |           |                   | US steel   | IA<br>IA | J079<br>J080 | Bauxite production to be raised                                     | MW       | J288                      |
| Palabora extraction plant<br>South African vanadium         | IA<br>IA |            | 249<br>250           | Turkish zinc project   | IA        | J035              |  | Sup      | Jan 30       | Kremenchug anomaly  | IA       | J293<br>J293              |
| Western Areas-Elsburg                                       | IA       |            | 275<br>275           | Development of eastern Turkey  | IA        | J225              | GSA stockpile release  | MW<br>MW | J093<br>J093 | Asbestos shortage feared<br>Soviet tin ore deposit                  | IA.      | J309<br>J367              |
| Asbestos shortage feared                                    | MEV      | V J:       | 309                  | U.A.R.   |           |                   | Kennecott record copper output   | IA       | 1101         | Gold extraction developments<br>Soviet coal production              | M<br>IA  | J394<br>J397              |
| Coronation Syndicate  A ore freight rates cut               | IA<br>IA | J.         | 319<br>321           | Mineral resources development  | MW        | J075              | Stockpile re'eases   | N<br>MW  | J109<br>J113 | Ferrous metal targets not reached                                   | MW       | J418                      |
| Union Carbide development<br>Piet Retief colliery           | IA<br>IA |            | 344<br>344           | Egyptian mineral development   | P         | M441              | Phelps Dodge copper record   | IA<br>IA | J119<br>J120 | Rumian alumina plant<br>Bolivian tin for USSR                       | IA<br>IA | J429<br>J452              |
| S. African iron ore<br>State aid for new gold mine          | IA<br>MV | 33         | 356<br>362           | UGANDA   |           |                   | Stability for silver?  | N<br>MW  | 1129         | Ukraine manganese<br>Urals copper industry                          | IA       | J495<br>J526              |
| faal Reefs gold mine  | IA.      | 13         | 367                  | Uganda copper output<br>Uganda seeks majority mineholding                            | IA<br>IA  | J037<br>J118      | AEC cuts uranium purchases   | MW       | J133<br>J134 | Siberian copper<br>Soviet nickel for Japan                          | IA       | J548<br>J550              |
| fore ore for Prieska A offshore exploration company         | IA.      | 13         | 195                  | Uganda nationalisation   | IA        | J429              |  | IA<br>IA | J138<br>J169 | Indian iron ore for Bulgaria  | I.A.     | J550                      |
| Okiep Copper Mine<br>Litchell Cotts in Africa               | IA       | 13         | 195<br>198           | Ugandan Mineral Prod.  | IA        | J574              | GSA sells vanadium   | IA<br>IA | J141<br>J141 | SA/Japan copper contract<br>Solvent extraction for Nchanga          | IA<br>MW | J550<br>J520              |
| A anthracite for Europe<br>ranium recovery plant            | IA<br>IA | J3         | 199                  | U.K.   |           |                   | Copper hearings worthwhile   | IA       | J141         | Bolivia/Soviet agreement<br>USSR aid to Nigeria                     | IA<br>IA | J575<br>J597              |
| old - A special commodity                                   | Sup      | p Ma       | ay 70                | Deadlock at Clydach  | IA        | J013              | Pollution control  | IA<br>N  | J141<br>J149 | The Kursk anomaly The Achiesi mines                                 | A        | M010<br>M081              |
| lew use for old mines<br>lore SA iron ore for Japan?        | IA<br>IA | J4         | 29                   | UK coal price jump<br>European coal forecasts  | IA        | J025<br>J037      |  | MW       | J153<br>J157 | Soviet trade mission  | A        | M183                      |
| A coal sales to Japan  African diamond cutting              | IA<br>MW | J4         |                      | Clydach talks useful<br>Mt. Wellington shaft-sinking                                 | IA<br>IA  | J037<br>J059      | Alaskan uranium-thorium  | A        | J157         | Kazakhstan project<br>Duchek mine                                   | P        | M252<br>M322              |
| lotation cells  A. mineral prospecting                      | M        | J4<br>J4   |                      | Dowty/Anderson Mayor merger<br>Steel -mixed prospects                                | IA<br>N   | J059<br>J070      | Alcoa alumina plant expansion 1.   | A        | J183         | Chiatura manganese mines<br>Soviet skip winder                      | D        | M237<br>M239              |
| African rock cutter   | IA.      | 14         | 50                   | European energy market   | MW        | J074              | World copper supplies 1.   | A        | J183<br>J184 | Almalyk mining complex<br>Dump car cleaning                         | D        | MORI<br>M152              |
| lgoa Bay ore export berth<br>lectrolytic Metal Corporation  | IA<br>IA | J4         | 70                   | Optimistic UK coal outlook<br>Strike settled at Clydach                              | IA<br>IA  | J080<br>J102      |  | A        | J185         | Dump car cleaning   | D        | M132                      |
| omati development?<br>ew use for old mines                  | IA<br>IA | J4<br>J4   |                      | UK diesel engines for Japan<br>Opencast coal site in Wales                           | M         | J116<br>J118      | Tin balance N  | WW.      | J193<br>J197 | VENEZUELA   |          |                           |
| numeb's new mine<br>plivian Shaft Contract                  | MW<br>IA | 15         | 41                   | Immingham ore terminal Al. fabrication programme                                     | IA<br>MW  | J118<br>J133      |  | A        | J202<br>J202 | Non-metallic minerals   | IA<br>MW | J343<br>J468              |
| ising Mineral Production                                    | MW       | 15         | 89                   | New UK fluorspar venture   | IA        | J138              | Monte Cristo uranium   | A        | 1202         | Oil and gas problems  Loma de Hierro nickel deposits                | MW       | J542                      |
| outh Africa Licence<br>ewatering at West Drie.              | P        | J66<br>MC  | 009                  | UK steel output<br>South Crofty tin ore plant  | IA<br>IA  | J139<br>J139      | Potash in Utah Humble uranium mine plans   | A        | J203<br>J204 | YUGOSLAVIA  |          |                           |
| ust sampling techniques African uranium plant               | M<br>P   | MO         |                      | Ashmore/Yawata link Pollution control  | IA<br>N   | J139<br>J149      | US mine waste problems  BHP dumping duty levy  1/  |          | J206<br>J206 | Powell Duffryn UN contract  | IA       | J138                      |
| eep level gold mining                                       | A        | MO         |                      | BSC buys Australian iron ore<br>New UK tin mine                                      | MW<br>IA  | J153<br>J158      | Confidence in aluminium N  | 1        | J213<br>J217 | Rock mechanics exhibition<br>Expansion in Eastern Europe            | IA       | 1229                      |
| ew range of explosives<br>ager safety                       | М        | MI         | 141                  | £10.6m Chilean-UK agreement  | IA        | J159              | Antimony shortage acute N  | 1        | J241         | Yugoslavia expanding production                                     | MW       | J310<br>J487              |
| verland conveyor<br>onrho platinum                          | M<br>P   | MI<br>MI   | 65                   | BSC £22.8 million loss<br>NCB contract   | IA<br>IA  | J159<br>J160      | Al packaging growing 1A  | A        | J244<br>J249 | ZAMBIA  |          |                           |
| ew platinum refinery<br>ieska copper mine                   | A        | MI<br>M2   |                      | 7-day working to end<br>Quarry vehicle regulations                                   | IA        | J160<br>J161      | Mineral processes summer school  Tide turning for iron ore  N  |          | J250<br>J261 | Kaunda on copper tax  | IA       | 1059                      |
| ovt. loan for mine<br>oving a mountain                      | P        | M4<br>M4   |                      | OMA writes to Mr . Jenkins<br>New BSC tinplate facility                              |           | J174<br>J185      | Use of gold in electronics M   | rw.      | J267<br>J274 | Zambian metal exports   | IA       | J085<br>J091              |
|   | 749      | 202.4      | ,,                   | Quarry machinery business purchase   | IA        | 1185              | Joides project extended IA<br>Dutch/US bauxite talks IA  | 4        | 1274         | Zambian Act aids exploration<br>Japanese for Zambia                 | MW<br>IA | 1101                      |
| MALIA   |          |            |                      | Aust. iron ore for Scotland  | IA        | J206<br>J227      | Humble Oil uranium IA US/Japan pellet venture IA   |          | J275<br>J275 | Budget concessions for mining<br>World copper supplies              |          | J113<br>J184              |
| malia mineral survey extended<br>neral development          | IA<br>MW | J03        |                      | Japanese copper base in London<br>Extractive industries management                   |           | J229<br>J229      | Supports for US coal mine IA US metal industry investment IA   | 4        | 1276<br>1276 | Zambian mineral output<br>RST changes course                        | IA       | J205<br>J215              |
| ADV   |          |            |                      | Antimony shortage acute  | N         | J241<br>J246      | US coal prices accepted M  | W        | J288         | Zambian copper transport normal                                     | IA       | 1276                      |
|   | 14       | J01        |                      | UK interest in Argentina   | IA        | J249              | Fire control with fly ash US/Peru/Japan venture IA   | 1        | J290<br>J292 | Zambian tax-guarantees at a price<br>Rhokana work stoppage          | IA       | J287<br>J294              |
| mish pellet plant<br>w era for mining                       | IA<br>MW | JH         | 4                    | USSR-UK agreement  |           | J276<br>J293      | American Zinc output IA US mercury output down IA  |          | J293<br>J294 | Zambia seeks W. German investment<br>Zambian steel tenders          | IA<br>IA | J450<br>J451              |
| an steel for Spain<br>mish diamonds                         | IA       | J12        |                      | Opencast mining in Cumberland  | IA        | J294<br>J311      | Exploration in Haiti IA  | 1        | J317         | Zambian prospecting licences  | IA       | J319                      |
| arroya expansion  | IA       | J22<br>J49 | 9                    | Sheerness steelworks started   | IA        | J321              | Major uranium discovery IA<br>Spooner Mines contracts IA   |          | J317<br>J319 | Anglo Terminal dividends<br>Mitsui to prospect in Zambia            | IA       | J323<br>J395              |
| wty at Madrid exhibition<br>ad Wrightson at Madrid          | IA       | 149        | 7                    | Pendarves tin mine prospect  | IA .      | J331<br>J343      | Persistent steel boom N US zinc producers trim their sails MN  | W        | J337<br>J339 | Mitchell Cotts in Africa<br>Zambia Broken Hill negotiations         | IA<br>IA | J398<br>J399              |
| flections on the Madrid Congress<br>pan/Spain steel venture | N<br>IA  | J53<br>J54 |                      | Mt. Wellington mine  |           | J343<br>J345      | New organisation MN<br>GSA industrial diamond offer IA   | W .      | J341<br>J345 | Zambian copper prospecting<br>Zambian Coal Supplies                 | IA       | J547<br>J575              |
| anish mining development                                    | P        | M16<br>E33 | 53                   | International Mining & Quarrying Co.   | IA :      | 1370              | US dumping duties IA   |          | J345         | Permit for Agip   | IA       | 1597                      |
| ning in Spain<br>ain emergent                               | A        | E33        |                      |  |           | J417<br>J429      | US stockpile disposals IA  Quest for capital N   |          | J345<br>J357 | New Mining Act New mines Act  |          | M167<br>M266              |

| ouilous u  | na               | Ma           | chines   |          |              | Geophysical prospecting<br>Egyptian development                  | P        | M428<br>M441 | LEACHING   |             |              |
|--|------------------|--------------|--|----------|--------------|--|----------|--------------|--|-------------|--------------|
| ASSAY METHODS  |                  |              | German tunnelling machine                                    | М        | J095         | FLOTATION METHODS  |          |              | Gold from low-grade deposits<br>Philippine mining complex<br>Zinc leach residues | M<br>P<br>D | M09          |
|  |                  |              | Reconditioned equipment                                      | M        | J096         | Bougainville Copper  | М        | J545         | Zinc leach residues  | D           | M51          |
| Samples from drill cores<br>On-stream analytical studies       | M                | J342<br>M067 | Data programme<br>Diamond drilling                           | M        | 3135<br>3177 | D.M. separators  | D        | M153         | MECHANICAL HANDLING  |             |              |
| Drill hole probe   | M                | M146         | New drilling system  | M        | J177         | Economics of flotation<br>Flotation of monazite                  | A        | M281<br>M323 | Turbo charger dozer  | М           | J007         |
| Directional geiger<br>Fluorescence analyser                    | M                | M147<br>M225 | Diamond drilling<br>New drilling system                      | M        | J177         |  | -        |              | Hydrostatic loader   | М           | J135         |
| Particle size analyser   | M                | M225         | Flat head raise bore bit                                     | M        | J177<br>J269 | FURNACES   |          |              | New machine launched<br>Polish crusher-stower                                    | M           |              |
| Assay samples  | M                | M420         | Underwater equipment   | M        | 1269         | 1.S. furnace   | M        | M145         | New belting  | M           |              |
| AUTOMATION   |                  |              | Minibore jumbo drill<br>Samples from drill cores             | M        | J314<br>J342 | Asbestos dryers  | M        | M145         | Stacker/reclaimer<br>In-motion weighing systems                                  | M           |              |
| A  | М                | 1000         | Stone dressing rig   | M        | J271         | Smelter commissioned<br>European metals expansion                | P        | M339<br>M441 | Combined load-haul machine   | M           | J469         |
| Automatic sampler On-line process computers                    | M                | J007<br>J007 | Rigs for Yugoslavia<br>Fagersta's Brazil factory             | M        | J422<br>J422 | Axial fans   | M        | M497         | Articulated tractor shovel The Kursk anomaly                                     | M           |              |
| Electronic desk-top calculator                                 | M                | J029         | Large-diameter tunnel boring                                 | M        | 3491         | CTC1 CC11 - CC1 - CC1  |          |              | Fluid coupling   | A<br>M      | M07          |
| Desk calculator<br>Computer for Mount Isa                      | M                | J096<br>J155 | Site investigation service<br>Large-diameter shafts          | M        | J394<br>J491 | GEOLOGY & ORE DEPOSITS   |          |              | Beach mining technique<br>Running-in gears                                       | P           | M09:<br>M15: |
| Computer for Boliden   | M                | J271         | Churchill Falls  | M        | J522         | "Side look" radar mapping  | M        | J077         | Dump car cleaning  | D           | M15          |
| Desk top computers<br>Prospecting by infra-red                 | A                | M020<br>M039 | Dust control in rotary drills<br>Drilling with diamond bits  | D        | M079<br>M106 | Grinder and cutter for rock samples<br>Zululand mineral deposits | M<br>IA  | J115<br>J157 | Ore handling at Nimba<br>High speed tunnelling                                   | A           | M16          |
| On-stream analytical studies                                   | М                | M067         | Core drilling  | A<br>M   | M420         | Development in Mozambique  | MW       | J173         | Hydraulic loader   | A           | M225         |
| Dust sampling techniques<br>Electronic dewpoint alarm          | M                | M067<br>M067 | Twin boom crawler rig<br>Raise boring at Rhokana             | М        | M422<br>M447 | Exploration at Sturgeon Lake                                     | IA       | J173<br>J229 | Dinting at Goldthorpe<br>Combined load-hauler                                    | M<br>M      | M23          |
| Particle monitor   | M                | M069         | Heated cab for drilling                                      | A        | M507         | Congress Magnetic measurements                                   | M        | J246         | Rubber tyred loaders   | A           | M233<br>M289 |
| Reducing noise<br>Flameproof gyro compass                      | M<br>D           | M071<br>M077 | Simba rigs at Mt. Isa  | M        | M510<br>M510 | Somalia mineral development                                      | MW       | J289<br>J595 | Face shovels   | A           | M29          |
| Control system   | D                | M077         | Hydraulic drilling equipment<br>Raise boring bit             | M        | M510         | Geochemical Expl. Sym. Copper from Tyrone                        | P        | M005         | Tunnelling machine<br>Magnet crane   | M           | M309<br>M311 |
| Deep level gold mining   | A                | M096         | Drilling cab   | M        | M511         | Exploration in Indonesia   | P        | M007         | New ripper   | M           | M313         |
| Cable handler Weighing ore samples                             | M                | M137<br>M137 | Turbo-drilling   | M        | M515         | The Kursk anomaly<br>Prospecting by infra-red                    | A        | M010<br>M039 | Crusher-stower Dozer shovel  | M           | M313         |
| Laser safety   | M                | M141         | <b>EDUCATION &amp; TRAINING</b>                              |          |              | The Achisai mines  | D        | M081         | New loader   | M           | M317         |
| On-line computers Drill hole probe                             | M                | M145<br>M146 | Mining bursary   | мм       | J191         | Almalyk mining complex   | D        | M081<br>M089 | Four-wheel drive loader<br>Mechanised drifting                                   | M           | M319<br>M322 |
| Radio wave system  | M                | M146         | Extractive industries  | IA       | J229         | Permissive society Philippine mining complex                     | P        | M091         | Madrid Mining Exhibition   | A           | M375         |
| Data for decision<br>Fluorescence analyser                     | M<br>M           | M161<br>M225 | Mining on the air<br>Mining careers survey                   | MW       | J267<br>J356 | What next with Poseidon?   | P        | M092<br>M093 | Handling open pit lignite<br>New loader  | A           | M391<br>M415 |
| Particle size analyser   | M                | M225         | New manpower unit  | MW       | J467         | Botswana project<br>Tonsteins                                    | A        | M093<br>M119 | Wabco loader   | M           | M415         |
| Seismic timers<br>Cutter-grinder                               | 7.4<br>8.5       | M225<br>M231 | Post-graduate studies  | A        | M105         | Helicopter E.M. system   | M        | M147         | Leasing v Buying   | E           | M437         |
| Monitoring system  | M<br>M           | M315         | Engineers in US  | 1        | M150         | Saudi Arabia search<br>Spanish mining                            | P        | M152<br>M163 | Ripping in openpit mining<br>Cutter-loader                                       | A<br>M      | M458<br>M497 |
| Electronic calculator  | М                | M316         | ELECTRIC EQUIP.  |          |              | Cuban nickel   | P        | M165         | Unit rig facilities  | M           | M497         |
| Vibration recorder Offshore equipment                          | M                | M318<br>M319 | Electrical fragmentation                                     | м        | J155         | Lonrho platinum<br>New Zambian Act                               | P        | M165<br>M167 | Face-loading shovel<br>Articulated shovel  | M           | M503<br>M505 |
| Optical mini-laser   | M                | M321         | Deep level gold mining                                       | A        | M096         | Moly in porphyry copper  | A        | M187         | Allis-Chalmers wheel loader  | M           | M505         |
| Gyro-compass<br>Computers for mining                           | M                | M325<br>M418 | Cable handles<br>Ore handling at Nimba                       | M<br>A   | M137<br>M168 | Tonsteins  | A        | M203         | Caterpillar 980 unit<br>New loader choices                                       | M           | M505<br>M505 |
| Proton magnetometer  | м                | M419<br>M422 | Churchill Falls project                                      | A        | M479         | Potassium-Argon dating<br>Fluorescence analyser                  | R<br>M   | M213<br>M225 | Front wheel drive loader   | M           | M507         |
| Warning system<br>Air pollution sampler                        | M                | M422         | EXCAVATORS   |          |              | Seismic timers   | M        | M225         | 100 cubic yard dragline  | M           | M509         |
|  |                  |              | EACAVATORS   |          |              | Polish metal mines<br>Chiatura manganese mines                   | D        | M235<br>M237 | METALLURGY   |             |              |
| BLASTING & EXPLOSIVES  |                  |              | Turbo charger for crawler dozer                              | М        | J007         | Highlands minerals   | D        | M239         |  |             |              |
| Onta programme aids operations                                 | M                | J135         | Adjustable ripper<br>New dozer shovel                        | M        | J029<br>J095 | Let's be precise<br>Copper mine at Prieska                       | P        | M249<br>M251 | Argentine sinter plant<br>Precious metals extraction                             | M           | J029<br>J179 |
| Large-scale mines Underground blasting studied                 | M                | J247<br>J314 | New machine launched   | M        | J155         | Indian lead deposits   | P        | M251         | Iron ore pelletising plant   | M           | J448         |
| CI Philippines company   | IA               | 1471         | New bucket loader series<br>Articulated tractor dozer        | M        | J201<br>J222 | Kazakhstan project<br>Duchek mine                                | P        | M252<br>M322 | Ni flash smelting process<br>Spanish Sahara phosphate                            | M           | J593<br>M005 |
| Churchill Falls CIANZ/IRECO agreement                          | M                | J522<br>J527 | Articulated tractor shovel                                   | M        | J269         | Scalisitir Mining in Greece                                      | P        | M335         | S. African uranium plant   | P           | M091         |
| Astrolite' explosive   | M                | 1545         | 1 and 1½yd3 powershift loaders<br>Combined load—haul machine | M        | J291<br>J469 | Kennecott's plans and prospects<br>Robe River project            | P        | M335<br>M337 | Pelletising at Wabush<br>LS. furnace   | M           | M141<br>M145 |
| New range of explosives<br>leismic system                      | M                | M137<br>M311 | New wheel loader   | M        | J394         | Spain emergent   | A        | M343         | New platinum refinery  | A           | M193         |
| Ring drilling  | D                | M323         | 840 wheel loader Articulated tractor shovel                  | M        | 3421<br>3570 | The Iberian Peninsula  | A<br>M   | M355         | Hamersley's Himet plant  | P           | M335         |
| win boom crawler rig   | M                | M422         |  | 190      | 3370         | Oamites copper<br>Marine exploration                             | D        | M415<br>M425 | Smelter commissioned   | P           | M339         |
| NFO in W. Germany<br>piral method of sinking                   | D                | M428<br>M429 | EXHIBITIONS & CONF.  |          |              | Manganese ores   | D        | M427         | MINE COMMUNICATION   |             |              |
| loving a mountain  | M                | M499         | Offshore technology  | М        | 3077         | Upgrading ilmenite<br>Falconbridge plans                         | P        | M439<br>M443 | Control system   | D           | M077         |
| DAL TECHNOLOGY   |                  |              | Tenth CMMC<br>Mineral extraction                             | IA<br>MM | J141<br>J168 | New Randfontein mine   | P        | M443         | Data for decision  | E           | M161         |
|  | - 1              |              | Symposium  | MM       | J210         | CRANEN MERIODA   |          |              | Mozambique<br>Electronic calculator  | P           | M253<br>M316 |
| oal plant contract<br>erman machinery                          | M                | J007<br>J029 | Congress Rock mechanics exhibition                           | IA<br>IA | J229<br>J229 | GRAVITY METHODS  |          |              | Locating trapped miners  | M           | M321         |
| se of foam in coal mines                                       | M                | J115         | Symposium on open pit mines                                  | IA       | 3229         | Wet separation plant   | M        | J095         | Computers for mining<br>Warning system   | M           | M418<br>M422 |
| hain protection devices<br>losco cutter-loader modified        | M                | J135<br>J201 | Mineral processing control<br>Extractive industries          | IA       | J250         | New concentration spirals  | M        | J177         | Emergency radio system   | M           | M423         |
| fater barriers   | M                | 1394         | Mineral processes  | IA<br>IA | J229<br>J250 | Gold extraction developments                                     | М        | J394         | MINE HOISTING  |             |              |
| umania-lignite mining<br>ontinuous mining                      | A                | M030<br>M074 | Mineral industry symposium                                   | MM       | 1282         |  |          |              |  |             |              |
| rgentine coal plant  | M                | M139         | IME summer conference<br>Symposium on open pit mines         | IA       | J331<br>J379 | HEALTH/WELFARE   |          |              | Soab South<br>Deep level gold mining   | A           | M233<br>M096 |
| lodified power support   | M                | M142<br>M203 | Rock Blasting  | MM       | J438         | Pollution control  | N        | J149         | Hydraulic hoisting of ore  | A           | J246         |
| ustralian coal   | A                | M217         | Copper exporters meeting<br>Lead and zinc in the 70s         | IA<br>MM | J452<br>J484 | Platinum in petrol<br>UNECE nollution study                      | MW       | J288         | MINERAL PROCESSING   |             |              |
| lining in India  | M                | M227         | Dowty at Madrid exhibition                                   | IA       | J495         | Dust sampling techniques   | MM<br>M  | J461<br>M067 |  |             |              |
| lagnetic water treatment<br>lozambique                         | P                | M237<br>M253 | Head Wrightson at Madrid<br>Two gatherings                   | IA<br>IA | J497<br>J527 | Reducing noise   | M        | M071         | Coal handling plant  | M           | J007<br>J029 |
| andling open pit lignite                                       | A                | M391         | Madrid Congress reflections                                  | N        | 1537         | Monitoring pollution   | М        | M227         | Argentine sinter plant<br>Equipment for Jordan                                   | M           | 3030         |
| OMPUTERS   |                  |              | Open pit mining<br>Computers in coal industry                | IA       | J575<br>J575 |  |          |              | Portable X-ray analyser  | M           | J077         |
|  |                  | 1005         | Tuncon 70  | IA       | 1599         | LABOUR   |          |              | Wet separation plant<br>Grinder and custer for rock                              | M           | J095<br>J115 |
| n-line process computers<br>omputer for Mount Isa              | M                | J007<br>J155 | Spanish mining<br>Madrid Mining Congress                     | P        | M163<br>M371 | Tomorrolo steller  | 14       | 1012         | Vibratory feeder   | M           | J116         |
| nglo's computer service  | IA               | J204         | Madrid Mining Exhibition                                     | A        | M371<br>M375 | Toquepala strike ends<br>Swedish iron ore strike                 | IA<br>IA | J013<br>J013 | Producing synthetic rutile<br>Vibration grinding machine                         | M           | J135<br>J135 |
| omputer for Boliden<br>esk top computers                       | M                | J271<br>M020 |  |          |              | Clydach talks useful   | IA       | J037         | Fragmentation of ores  | M           | J155         |
| n-line computers   | A                | M145         | EXPLORATION  |          |              | Geco strikers rejects offer<br>LKAB strike continues             | IA       | J081<br>J081 | New concentration spirals<br>Precious metals extraction                          | M           | J177<br>J179 |
| INVEYORS   |                  |              | Tracdril-mounted drill                                       | M        | J030         | End to Le Nickel strike  | IA       | J102         | Tin recovery by flotation  | M           | J221         |
|  | **               | 1221         | "Side look" radar mapping<br>Seismic prospecting system      | M        | J077<br>J096 | Inco's Manitoba agreement<br>Strike settled at Clydach           | IA       | J102<br>J102 | Gang sampler   | M           | J222         |
| ew belting<br>acker/reclaimer                                  | M                | J221<br>J365 | Model ocean for tests  | M        | J221         | Post-graduate studies  | A        | M105         | Hydrocyclone test set<br>Nomograph determination                                 | M           | J247<br>J247 |
| verland conveyor   | M                | M143         | Magnetic measurements  Joides project extended               | M<br>IA  | J246<br>J274 | Penarroya strike over<br>Swedish strike over                     | IA       | J120<br>J120 | Mineral summer school  | IA          | J250         |
| re handling at Nimba<br>erminal belting                        | A<br>M           | M168<br>M423 | Exploration in Indonesia                                     | P        | M007         | 7-day working to end   | IA       | J160         | Control in mineral processing<br>Crushers for Argentina                          | IA<br>M     | J250<br>J269 |
|  | 141              | 111723       | Samples from drill cores                                     | M        | J342         | Overseas labour for Mt. Isa                                      | IA       | J160         | Grinding mill lifter bars  | M           | J314         |
| RUSHING & GRINDING   |                  |              | Site investigation service<br>Geochemical Expl. Syrn.,       | M        | J394<br>J595 | Swedish iron ore strike spreads<br>Zambian copper transport      | IA<br>IA | J185<br>J276 | Samples from drill cores<br>Sample dressing plants                               | M           | J342<br>J342 |
| bration grinding machine                                       | м                | J135         | Prospecting by infra-red                                     | A        | M039         | Kwinana strike situation   | IA       | J276         | Plant for Australia  | M           | J342         |
| ectrical fragmentation   | M                | J155         | What next with Poseidon?<br>Botswana project                 | P        | M092<br>M093 | Rhokana work stoppage<br>Cerro Sales                             | IA<br>IA | J294<br>J332 | 400 ton/h crusher<br>Asbestos plant  | M           | J365         |
| olish crusher-stower<br>rushers for Argentina                  | M                | J177<br>J269 | Drilling with diamond bits                                   | A        | M106         | El Salvador  | IA       | J332         | Gold extraction  | M           | J394<br>J394 |
| rinding mill lifter bars                                       | M<br>M<br>M<br>D | J314         | Drill hole probe<br>Radio wave system                        | M        | M146<br>M146 | Canadían Javelin<br>NCB rejects shorter hours                    | IA       | J332<br>J345 | Iron ore pelletising plant   | M           | J448         |
| 00 ton/h crusher<br>ubber in Swedish mills                     | D                | J365<br>M151 | Helicopter E.M. system                                       | M        | M147         | Cerro strike spreads   | IA       | J345         | Flotation cells<br>Circular jigs dredge  | M           | J448<br>J523 |
|  |                  |              | Saudi Arabia search<br>Nickel at Greenvale                   | D<br>P   | M152<br>M252 | El Salvador<br>Bougainville strike                               | IA<br>IA | J370<br>J370 | Diamond sorting tables   | M           | J469         |
| REDGING  |                  |              | Mozambique   | P        | M252<br>M253 | Cerro strike over  | IA       | J370<br>J370 | Upgrading of titaniferous ore<br>Diamond recovery by X-rays                      | M<br>M      | J469<br>J491 |
| rcular jigs for RTZ tin dredge                                 | М                | J523         | Seismic system   | M        | M311         | Bougainville strike  | IA       | J399         | Bougainville copper  | M           | J545         |
| inign in Thailand  | A                | M256         | Vibration recorder<br>Robe River project                     | M        | M318<br>M337 | Bevercotes deal terminated<br>Bougainville strike ends           | IA<br>IA | J429<br>J429 | Transporting ore slurries<br>Electric magnetic separator                         | M<br>M      | 1545         |
| RILLING (GEN)  |                  |              | Island copper  | P        | M339         | Soc. Le Nickel strike  | MM       | J463         | Spanish Sahara phosphate   | P           | J545<br>M005 |
| itomatic sampler   | М                | J007         | Proton magnetometer  |          | M419         | El Salvador agreement<br>Bevercotes pay offer                    |          | J463<br>J463 | Highland Valley The Kursk anomaly  | P           | M007         |
|  |                  | 1007         | Assay samples  | M        | M420<br>M420 | New manpower unit  |          | J467         |  | A           | M010         |
| ing year's contracting company<br>acdril-mounted diamond drill | M                | 1030         | Seismograph system   | M        | M42U         |  |          |              | S. African uranium plant   | P           | M091         |

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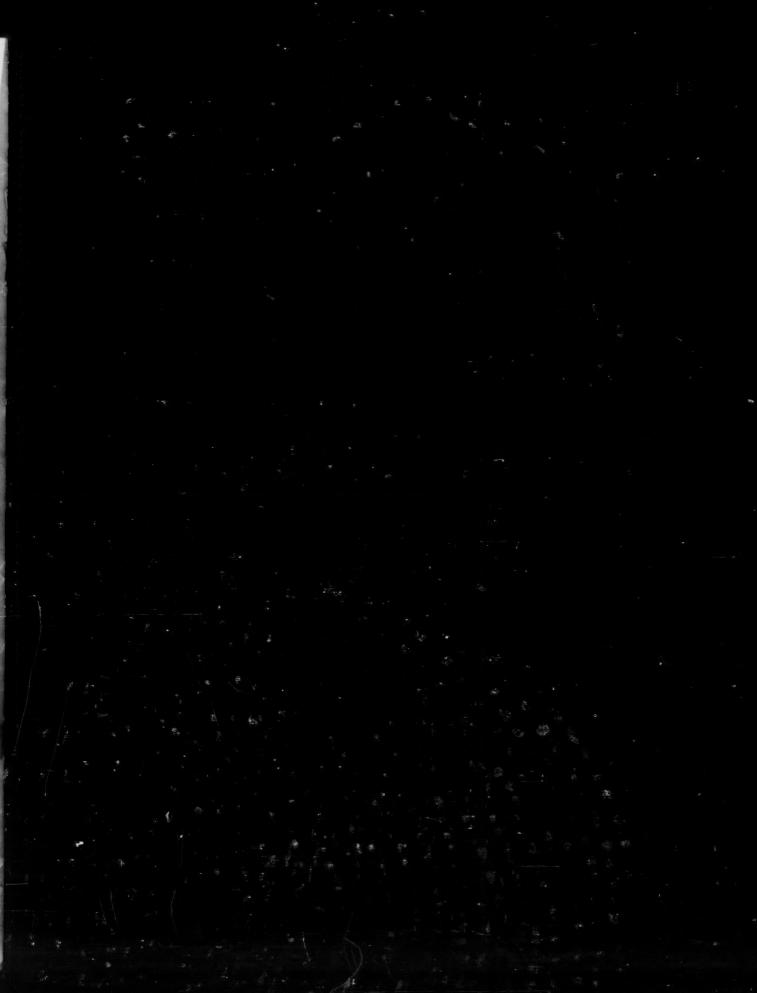
| Pelletising at Wabush<br>Asbestos dryers                 | M           | M141<br>M145   | New era for Spanish mining<br>Stability for silver?         | N        | W J114<br>J129   | PUMPING/DRAINAGE  |          |                | TAXATION/TARIFFS   |          |                |
|--|-------------|----------------|---|----------|------------------|---|----------|----------------|--|----------|----------------|
| Rubber in Swedish mills                                  | D           | M151           | Controlling the fever                                       |          | (W J131          | Hydraulic hoisting of ore                               | M        | J246<br>J247   | B.C. protest on tax reform<br>Ghana government attitudes | M        |                |
| D.M. separators<br>Nepean starts shipments               | P           |                | Protest on tax reform<br>Restricting mining tenements       | I.       | W J131<br>A J140 | Simonacco Indian contract<br>Two-stage slurry pump      | 54       |                | Zambian tax  | M        |                |
| Gold recovery New platinum refinery                      | P           |                | More gold with the IMF                                      | L        | A J141           | New use for old mines                                   | L/s      | J427<br>J593   | Tax and UK mineral owners                                | M        | W J417<br>J465 |
| Magnetic water treatment                                 | A<br>D      | M237           | Copper hearings worthwhile<br>Pollution control             | I)<br>N  | J149             | Mine water softener<br>Submersible pump hire            | M        | 1570           | Keeping up the pace<br>Tax on lead                       | MY       | W J467         |
| Economics of flotation<br>Ceylon cement production       | A           | M281<br>M318   | Nickel in tight supply<br>Quarry Vehicle regulations        | M<br>L   | W J154<br>A J161 | Dewatering at West Drie.                                | P        | M009           | New Zambian Act<br>New Zambian Act                       | P        | M167<br>M266   |
| Ilmenite upgrading                                       | M           | M318           | Self-criticism in Russia                                    | N        | J169             | RECLAMATION   |          |                | New Randfontein mine                                     | P        | M443           |
| Duchek mine<br>Flotation of monazite                     | D           |                | OMA writes to Mr. Jenkins<br>Tin balance                    | N        | W J174<br>J193   | US mine waste problems                                  | IA       | 1206           | Capital needs in the 70's                                | A        | M472           |
| Hamersley's Himet plant                                  | P           | M335           | No lead disposal  | M        | W J197           | Ilmenite upgrading                                      | M        | M318           | TEST EQUIP.  |          |                |
| Island copper<br>Madrid Mining Exhibition                | PA          | M339<br>M375   | Colombian nationalisation<br>Confidence in aluminium        | IA<br>N  |                  |   |          |                | Hydrocyclone test set                                    | М        | J247           |
| Concentrating magnesite                                  | D           | M425<br>M427   | End of producer price?  Development of eastern Turkey       | M<br>LA  | W J217           | RESEARCH  |          |                | Weighing ore samples                                     | M        | M137<br>M145   |
| Manganese ores<br>ANFO in W. Germany                     | D           |                | Antimony shortage acute                                     | N        | J241             | Research on laterites                                   | MY<br>M  | W J199<br>J177 | On-line computers<br>Safe noise meter                    | M        | M231           |
| Upgrading ilmenite Zinc leach residues                   | P           | M439<br>M515   | Japanese/Aust. interests<br>Tide turning for iron ore       | M        |                  | Diamond drilling<br>McGill research institute           | IA       | J223           | Assay samples<br>Seismograph system                      | M        | M420<br>M420   |
|  | D           | Maria          | Mining on the air   | M        | W J267           | Radio rescue work Gold extraction                       | M        | J342<br>J394   |  |          | 101420         |
| OFFSHORE MINING  |             |                | Iron ore royalties raised<br>West German stockpiles         | IA<br>IA |                  | Titaniferous ore  | M        | J469           | TRADE/STATISTICS   |          |                |
| Offshore technology                                      | M           | J077           | US metal industry   | IA       | 1276             | Core specimen preparation<br>Dust sampling techniques   | M        | J491<br>M067   | Eye on the US stockpile                                  | N        | J169           |
| Undersea mining consortium<br>Model ocean for tests      | M           | W J198<br>J221 | No nationalisation<br>China observed                        | IA<br>N  | J285             | On-stream studies                                       | M        | M067           | World copper supplies Prospects for iron ore             | IA<br>MW | J184<br>J217   |
| Offshore minerals control                                | IA          | J251<br>J269   | Zambian tax   | M        | W J287           | Electronic dewpoint alarm<br>Particle monitor           | M        | M067<br>M069   | Unimet Pty, in Australia                                 | IA<br>N  | J225<br>J262   |
| Underwater equipment<br>Joides project extended          | M<br>EA     | J274           | Ontario's gold mines<br>W. German stockpiles                | IA<br>IA |                  | MAC values in Germany                                   | M        | M069           | Bulk carrier fleet<br>Iron ore contracts                 | P        | M009           |
| German consortium formed<br>Australian offshore laws     | M<br>IA     | 1291           | Australian offshore laws<br>Preserving the heritage         | IA<br>N  |                  | Hydraulics<br>Tonsteins                                 | E        | M003<br>M119   | Metric mining<br>Soviet grade mission                    | T        | M150<br>M183   |
| Offshore tin exploration                                 | IA          | J319           | Fourth tin agreement  | M        | W J309           | Breakdown of rubber                                     | D        | M152<br>M165   | Pay and productivity talks                               | R        | M213           |
| Manganese seabed study<br>SA offshore exploration co.    | IA<br>IA    |                | Zambian expl. licences<br>SA ore freight rates cut          | IA<br>IA |                  | Gold recovery Tonsteins                                 | A        | M203           | Wolfram soars<br>Antimony - China dictates               | T        | M217<br>M299   |
| Ocean mining   | IA          | J423           | Persistent steel boom                                       | N        | J337             | Potassium-argon dating<br>Mining in India               | R        | M213<br>M227   | Freight rates increase                                   | T        | M299           |
| Offshore oil search in WA<br>Delay on Irish Sea licences | IA<br>IA    |                | US dumping duties<br>Quest for capital                      | IA<br>N  | J345<br>J357     | Mine subsidence   | M        | M229           | Ceylon cement production<br>Mining activity in Spain     | M.<br>E  | M309<br>M333   |
| Prospecting off Greenland                                | IA          | J493           | Tin-bottom of the barrel                                    | MV       | W J361           | Cutter—grinder Polish metal mines                       | M<br>D   | M231<br>M235   | Spain emergent   | A        | M343           |
| Gas exploration licences Major oil strike                | IA<br>MV    | J493<br>V J520 | Peru's new mining law<br>Chamber of Mines report            | MV       |                  | New dust sampler  | D        | M237           | The Iberian Peninsula<br>Copper pricing patterns         | A        | M355<br>M513   |
| Irish Sea licences                                       | IA          | J547           | Iron ore development policy                                 | MV       |                  | Highlands minerals  Dust control                        | D<br>M   | M239<br>M318   | The share markets  | T        | M513           |
| Submarine mineral prospecting<br>Removing seabed nodules | MW          | J569<br>J570   | Copper-dual pricing<br>Australia-and the facts              | MV       | J389<br>V J392   |   | -        |                | Copper markets in Japan                                  | D        | M514           |
| Offshore metals venture                                  | EA          | J571           | Zambia Broken Hill taiks<br>Peru's new mining panel         | IA<br>IA | 1399<br>1399     | ROCK MECHANICS  |          |                | TRANSPORT (GEN.)   |          |                |
| Beach mining technique<br>Offshore equipment             | P           | M092<br>M319   | Tax and UK mineral owners                                   | MV       | V J417           | German machinery for UK                                 | M        | J029           | Bougainville contract                                    | м        | J030           |
| Offshore mining  | D           | M322           | Canadian loan for India<br>Peru and Asarco rights           | IA<br>IA | J429<br>J429     | Rock mechanics exhibitions<br>Undergrounding blasting   | IA<br>M  | J229<br>J314   | N.S.W. railways' study                                   | IA<br>MW | J010<br>J074   |
| Geophysical prospecting                                  | D           | M428           | Uganda nationalisation                                      | 1A       | 1429             | Core specimen preparation                               | M        | J491           | Minerals by waterways<br>New mine loco                   | M        | 1077           |
| OPENCAST MINING  |             |                | Diversifying into strength<br>Zambia seeks W. German funds  | N<br>IA  | J441<br>J450     | Extensometers   | М        | J595           | Rope clamp for manrider<br>St. Lawrence seaway           | MW       | J077<br>J094   |
| Bougainville equipment                                   | м           | J007           | Keeping up the pace   | N        | J465             | SAFETY  |          |                | 50-ton off-highway truck                                 | M        | J115           |
| Turbocharger crawler dozer<br>Adjustable ripper          | M           | J007<br>J029   | New tin agreement<br>Copper pricing bill                    | IA.      | J467<br>J473     | Rope clamp for manriding                                | M        | J077           | Immingham ore terminal<br>North Sea pipeline             | IA<br>IA | J118<br>J140   |
| Electronic desk calculator                               | M           | 1029           | Molybdenum  | N        | J485             | Timber fire retardant                                   | M        | 1247           | Quarry vehicle regulations                               | IA       | J161           |
| New dozer shovel<br>50-ton off-highway truck             | M           | J095<br>J115   | Distinctions in consumption<br>N. Irish mineral development | MW<br>IA | J489<br>J493     | Radio for rescue work<br>Water barriers                 | M        | J342<br>J394   | Bulk carrier fleet<br>Power station order                | N<br>IA  | J262<br>J276   |
| Hydrostatic loader                                       | M           | J135           | Guyan bauxite industry                                      | IA       | 1497             | Resin-anchored bolts                                    | 346      | 1422           | Rockflo at Mt. Isa                                       | M        | M073           |
| New bucket loader series<br>Articulated tractor dozer    | M           | J201<br>J222   | Lead/zinc takes stock<br>Floating dollar                    | N<br>MW  | J517<br>J521     | Laser safety Safe noise meter                           | M<br>M   | M141<br>M231   | Ore transportation<br>Locos win world markets            | M<br>M   | J314<br>J315   |
| Symposium on open pit mines                              | IA          | J229           | Canada's floating dollar                                    | MW       |                  | Monitoring system                                       | 346      | M315           | SA ore freight rates cut                                 | IA       | 1321           |
| Articulated tractor she /el<br>1 and 1% yd3 loaders      | M           | J269<br>J291   | Storm in the offing<br>Under new management                 | N        | J585             | Locating trapped miners<br>Emergency radio system       | M        | M321<br>M423   | Mining locos stations Two big rail projects              | M        | J365<br>J393   |
| New wheel loader   | M           | 1394           | Hydraulics<br>Highland Valley                               | E        | M003<br>M007     | and a second  |          |                | In-motion weighing systems                               | M        | J421<br>J421   |
| 840 wheel loader<br>Copper from Tyrone                   | P           | J421<br>M005   | Iron ore contracts  | P        | M009             | SHAFT SINKING   |          |                | Loco building agreement<br>Port Talbot terminal opens    | MW       | J445           |
| Combined load-hauler<br>Rubber tyred loaders             | M           | M233<br>M289   | Permissive society Post-graduate studies                    | E        | M089<br>M105     | Reconditioned equipment                                 | M        | J096           | Algoa Bay ore export berth<br>Combined load—haul machine | IA<br>M  | J451<br>J469   |
| Face shovels   |             | M295           | Engineers in US   | T        | M150             | World copper figures<br>Chain protection devices        | IA<br>M  | J101<br>J135   | Transport of ore slurries                                | M        | 1545           |
| Magnet crane<br>New ripper                               | M<br>M      | M311<br>M313   | Data for decision<br>Spanish mining                         | E        | M161<br>M163     | Fire proofing underground                               | м        | J179           | Ore transportation<br>Rail transportation                | M        | M073<br>M117   |
| Dozer shovel   | M           | M315           | Moly in porphyry copper                                     | A        | M187             | Fire control with fly ash<br>Large-diameter shafts      | M        | J290<br>J491   | Bucket wheel reclaimer                                   | M        | M142           |
| New loader<br>Four-wheel drive loader                    | M           | M317<br>M319   | Pay and productivity talks<br>Wolfram soars                 | R        | M203<br>M217     | Lonrho platinum   | P        | M165           | Overland conveyor<br>Hydraulic transportation            | M        | M143<br>M143   |
| Handling open pit lignite                                | A           | M391           | Australian coal   | T        | M217             | Soviet skip winder<br>Copper mine at Prieska            | D<br>P   | M239<br>M251   | Dump car cleaning  | D        | M152<br>M039   |
| New loader<br>Oamitis copper                             | M           | M415<br>M415   | Let's be precise<br>Kazakahstan project                     | E        | M249<br>M252     | Spiral method of sinking                                | D        | M429           | Soviet skip winder<br>Coal and ore terminal              | D<br>M   | M311           |
| Wabco loader   | M<br>M<br>P | M415           | Nickel at Greenvale   | P        | M252             | Turbo-drilling  | М        | M515           | Motor rail locos Wheel tractor scraper                   | M<br>34  | M418<br>M503   |
| Algerian meral potential<br>Ripping in openpit mining    | A           | M439<br>M458   | Mining in Thailand<br>New Zambian Act                       | A        | M256<br>M266     | STOCKPILING   |          |                | Special-bodied haulers                                   | M        | M507           |
| Unit rig facilities                                      | M           | M497<br>M499   | Antimony-China dictates                                     | T        | M299<br>M299     | Eye on the US stockpile                                 | N        | J069           | Largest tyre in open pits?                               | М        | M509           |
| Moving a mountain<br>Face-loading shovel                 | M           | M503           | Freight rates increase<br>Offshore mining                   | D        | M322             | Looking to America                                      | N        | J109           | TRANSPORT (UNDG.)  |          |                |
| Wheel tractor scraper<br>Articulated shovel              | M           | M503<br>M505   | Mining activity in Spain                                    | E        | M333<br>M335     | Stockpile releases<br>W. German stockpile               | MW<br>IA | J113<br>J161   | New mine loco  | М        | J077           |
| Allis-Chalmers wheel loader                              | M           | M505           | Scalistiri Mining in Greece<br>Kennecott's plans            | P        | M337             | Stockpile disposal hearings                             | IA<br>M  | J185<br>M142   | Rope clamp for manrider                                  | М        | 1077           |
| New loader choices<br>Caterpillar 980 unit               | M           | M505<br>M505   | Spain emergent<br>The Iberian Peninsula                     | A        | M343<br>M355     | Bucket wheel reclaimers<br>Coal and ore terminal        | M        | M311           | St. Gotthard shuttletrains<br>Mining locos stations      | M        | 1269<br>1365   |
| Special-bodied haulers                                   | M           | M507           | Madrid Mining Congress                                      | A        | M371             |   |          |                | Loco building agreement                                  | M        | 1421           |
| Heated cab for drilling<br>Front wheel drive loader      | M           | M507<br>M507   | Marine exploration<br>Leasing v Buying                      | DE       | M425<br>M437     | STOPING (GEN.)  |          |                | Rockflo at Mt. Isa<br>Ore transportation                 | M        | M073<br>M073   |
| 100 cubic yard dragline                                  | M           | M509           | Algerian mineral potential                                  | P        | M439             | Rumania-lignite mining                                  | A        | M030           | Rail transportation                                      | A        | M117<br>M197   |
| Largest tyre in open pits?                               | М           | M509           | Falconbridge plans<br>Egyptian mineral development          | P        | M443<br>M441     | German iron ore mine<br>Almalyk mining complex          | D        | M079<br>M081   | High speed tunnelling<br>Motor rail locos                | A<br>M   | M197<br>M418   |
| PNEUMATICS/HYDRAULICS                                    |             |                | European metals expansion                                   | P        | M441<br>M472     | The Achisai mines                                       | D        | M081           | Terminal belting<br>Support in deep workings             | M<br>D   | M423<br>M425   |
| New mine loco  | М           | J077           | Capital needs in the 78's<br>Copper pricing patterns        | A        | M513             | Mechanisation at Mount Isa<br>New range of explosives   | P<br>M   | M093<br>M137   | Support in deep workings                                 | D        | 799423         |
| Hydrostatic loader<br>New drilling system                | M           | J135<br>J177   | The share markets<br>Copper markets in Japan                | T<br>D   | M513<br>M514     | Chiatura manganese mines                                | D        | M237<br>M256   | UNDERGROUND DEVELOP.                                     |          |                |
| Dosco cutter-loader                                      | M           | J201           | Copper markets in Japan                                     | D        | M314             | Mining in Thailand<br>Crusher—stower                    | A<br>M   | M313           | German tunnelling machine                                | М        | 1095           |
| New bucket loader series Mine water softener             | M           | J201<br>J593   | POWER PLANTS  |          |                  | Ring drilling   | D        | M323           | Data programming   |          | 1135           |
| Hydraulics   | E           | M003           | Diesel plant for Warrego                                    | М        | 1007             | Madrid Mining Exhibition<br>Support in deep workings    | A<br>D   | M375<br>M425   | Hydrostatic loader<br>Polish crusher-stower              | M        | J135<br>J177   |
| Hydraulic transportation<br>Compressed air underground   | M<br>A      | M143<br>M181   | Turbocharger for dozer                                      | м        | J007             | Raise boring at Rhokana<br>Churchill Falls project      | A        | M447<br>M479   | Dosco cutter-loader<br>Rapid tunnel drivage              | M        | J201<br>J246   |
| Hydraulic loader   | м           | M229           | Fluid coupling  | М        | M071             | Cutter-loader   | A<br>M   | M497           | St. Gotthard shuttletrains                               | М        | J269           |
| Hydraulic drilling equipment                             | М           | M510           | PROSPECTING   |          |                  | Gold mine ventilation<br>Simba rigs at Mt. Isa          | M        | M497<br>M510   | Low cost drivage<br>Crawler-mounted header               | M        | J271<br>J290   |
| POLITICO/ECON  |             |                | Zambian Act aids expl.                                      | MW       | J091             | Raise boring bit  | M        | M510           | Minibore jumbo drilling                                  | M        | J314           |
| Pragmatic moves on gold                                  | N           | J001           | Seismic prospecting system                                  | M        | J096<br>J115     | Ventilation and dust control                            | D        | M514           | Modified logging tractor                                 |          | J315<br>J342   |
| New Mining Act   | MW          | J004           | Ortho photo mapping<br>Prospecting in Ontario               | EA       | J157             | SURVEYING   |          |                | Hard rock boring machine<br>Churchill Falls              | M        | J522           |
| Chilean Copper Mines Act<br>US depletion rate cuts       | IA<br>N     | J013<br>J022   | Zambian prosp. licences                                     | IA<br>N  | J319<br>J357     |   | М        | 1029           | Dewatering at West Drie.<br>Ore transportation           | P 1      | M009<br>M073   |
| European coal forecasts                                  | IA          | J037           | Quest for capital<br>Promising mineral project              | MW       | 1363             | Electronic desk calculators<br>Mineral resources in UAR | MW       | 1075           | Rockflo at Mt. Isa                                       | M        | M073           |
| Primary metals outlook<br>Pick's Currency Yearbook       | IA<br>R     | J037<br>J045   | SA mineral prospecting                                      | IA       | J450             | Desk calculator<br>Ortho photo mapping                  | M        | J096<br>J115   | Continuous mining<br>German iron ore mine                |          | M074<br>M079   |
| Eye on the US stockpile                                  | N           | 1069           | PUBLICATIONS  |          |                  | Mineral potential                                       | MW       | J268           | Compressed air underground                               | A 1      | M181           |
| Greek investments agreed<br>Uranium—demand deferred      | IA<br>N     | J081<br>J089   | Survey of Mines   | IA       | J141             | Somali mineral development<br>North American survey     | MW       | J289<br>J580   | High speed tunnelling<br>Mine subsidence                 | M 1      | M197<br>M229   |
| Zambian Act  | MW          | 1091           | Australian minerals map                                     | IA       | J379             | Flameproof gyro compass                                 | D        | M077           | Dinting at Goldthorpe                                    | M        | M231           |
| Premiums deferred Argentine loans                        |             | Jan 30<br>J101 | US copper industry analysis  Analysing handling equipment   | MM<br>IA | J480<br>J574     | Helicopter E.M. system<br>Optical mini-laser            | M        | M147<br>M321   | Tunnelling machine<br>Mechanised drifting                | D !      | M309<br>M322   |
| Looking to America                                       |             | J109           | Economics of sulphur indust.                                | MF       | J618             | Gyro-compass  | D        | M325           | Drilling cab   | M I      | M511           |

| UNDERGROUND SUPPORT Resin-anchored bolts Mining equipment Mine water softener Modified power support | M<br>M<br>M | J422<br>J448<br>M593<br>M142 | VENTILATION  Using foam in coal mines Fire proofing underground Stone dressing rig Fire control with fly ash | M<br>M<br>M | J115<br>J179<br>J271<br>J290 | Radio for rescue work Aust. colliery supports Dust sampling techniques Electronic dewpoint alarm MAC values in Germany Dust control in drilling | M<br>M<br>M<br>D | M067<br>M067<br>M069 | New dust sampler Dust control Air-pollution sampler Axial fans Gold mine ventilation Ventilation and dust control | M<br>M<br>M<br>M<br>D | M2<br>M3<br>M4<br>M4<br>M4<br>M5 |
|--|-------------|------------------------------|--|-------------|------------------------------|---|------------------|----------------------|---|-----------------------|----------------------------------|
| Companies  | ar          | nd O                         | ther Public B  | oc          | lies                         |   |                  |                      | Coronation Syndicate MF J209 IA J319 Coronet Mines  | IA<br>IA              | J35                              |
|  |             |                              | Ateco  | М           | M313                         | Caledonian Mining Co.   |                  |                      | Craigmont Mines<br>C.G. Craven Co. Inc.   | MF<br>MM              | J01                              |
| ^  |             | 1005                         | Atherton Antimony<br>Atibiti Copper Mines  | iA          | 1449                         | M J179 Callahan Mining Corporation  | M                |                      | Cultus Pacific Cyprus Mines Corp.   | IA                    | J03                              |
| Aardal & Sunndal<br>Abaleen Minerals   | IA          |                              | IA J182  | IA          | J223                         | Camborne Mines  | IA<br>M          | J343                 | IA J117<br>Cyprus Mines Corp.   | MW<br>IA              | J41<br>J60                       |
| IA J182 IA J42<br>Abmex  |             | J117                         | Atlas Consolidated Mining<br>IA J550   | JA          | 1574                         | Campbell Chibougamau<br>Campbell Red Lake   | IA               | J425                 | ,,,   |                       |                                  |
| A M183 A M38<br>Africa Triangle  | 1           |                              | Atlas Copco<br>M J271 MM J355  | 0           | J376                         | Canadian Exploration Canadian Johns-Manville MM J405 MW J468  | IA               |                      | D   |                       |                                  |
| MF J191<br>African Explosives and Chemical   | P           | M251<br>M137                 | A M375<br>Atlas Explorations   | M<br>IA     | M510<br>J423                 | Canadian Pacific Railroad   | M M              |                      |   |                       |                                  |
| African Metals Corp.   | IA<br>IA    | J139<br>J493                 | Atomic Energy Commission (US)<br>Australia-Wide Mining Corp.   | IA          | J134<br>J009                 | Carr Boyd Minerals<br>IA J274   | IA               |                      | Dacon Collieries Daggafontein   | ME                    | J49                              |
| agip Nucleare<br>aguinaldo Corporation   | IA          | J597<br>J395                 | Australian Antimony Corp.<br>IA J097 IA J321   | IA          | J397                         | Casella, C.F. & Co.<br>Cassiar Asbestos   | M                | M422<br>J115         | Dart Truck Co.<br>Davidson & Co.  | M                     | J20<br>M4                        |
| litik<br>Ilcan Aluminium   | IA          | J369                         | Australian Consolidated Minerals<br>Australian Industrial and Mining   | IA.         | 1449                         | LA JO10<br>Caterpillar  | M                |                      | John Davis & Son (Derby)<br>M M071  | A                     | М3                               |
| MW J133 N J213   | IA<br>IA    | J399<br>J471                 | Automated Laboratory Equipment<br>Aveling-Barford Ltd.   | IA.         | J007<br>J599                 | M J029 M J394<br>M M233 M M31   | 3 M              | J469<br>M503         | Davis Keays IA J138 IA J203   | MW                    | J54                              |
| dcan New Zealand   | IA          | 3275                         | W. & T. Avery Avino Mines & Resources  | М           | J421                         | C.B.P. Engineering  | M<br>IA          | M505<br>J276         | Davy Ashmore Group<br>IA J139   | MW                    | J52                              |
| IA J120 N J149<br>IA J206 IA J398  |             | J183<br>J472                 | IA J395<br>Avoca Mines   | IA<br>IA    | 3547<br>3427                 | Cementation<br>M J096 MF J284   | MN               |                      | Dawe Instruments De Beers Consolidated Mines  | M                     | M23                              |
| lcoa Marine  | T           | M217                         | Avoca Mines Canada<br>Avon Rubber Co.  | MF<br>M     | J614<br>M319                 | IA J450<br>Central Norseman   | M                | M420                 | MM J046 MF J063<br>MF J456 ME J457  | MF<br>M               | J230                             |
| Icoa of Australia  | iA          | 1203                         | Ayer Hitam   | MF          | J104                         | MF J063 MW J289<br>Central Provinces Manganese Ore  |                  | J547                 | Deepsea Ventures<br>Demag   | MM                    | J04                              |
| Illis-Chalmers<br>M J007 M J421  | M           | M505                         | 3  |             |                              | MF J235<br>Cerro Corporation  | MF               | J387                 | IA J013 M J095  | IA<br>M               | J544<br>M30                      |
| Ipine (Machinery)<br>Iumina Partners   | IA          | J135<br>J225                 | Barringer Research   |             |                              | IA J081 MM J108<br>MM J165 MF J187  | IA<br>IA         | J118<br>J275         | Denison Mines<br>IA J081 MF J083  | N                     | J08                              |
| luminium Bahrain<br>luminium Co. of America  | IA          | J417<br>J249                 | M M146 Barrow Hepburn and Gale   | M<br>ME     | M227<br>J189                 | MM J284 IA J345<br>IA J370 IA J397  | MN               | 1 1355               | IA J140 IA J202   | MW                    | J21:                             |
| luminium Co. of Canada<br>Iuminium de Grece  | IA<br>IA    | J139<br>J574                 | B.C. Research and Ocean Coatings<br>Becorit  | M           | J247                         | IA J423 IA J450   |                  |                      | Denver Equipment Co.<br>MM J086 MM J147   | N<br>MJ               | J30:                             |
| husuisse<br>MW J055 IA 5343  | IA          | J549                         | M J135<br>Bell Asbestos  | A           | M385<br>J073                 | Charter Consolidated<br>MM J019 MM J046   |                  |                      | Derek Crouch  | IA                    | J118                             |
| Iwin Mining<br>IA J494   | IA          | 1573                         | Bellambi Coal  | MF<br>M     | 3211                         | IA J294 MM J405   | MF<br>MF         | 1533                 | Dillingham-Signal Dixilyn Corporation   |                       | J099                             |
| mad<br>malgamated Collieries   | MF          | J041                         | Benilite Corp. Beralt Tin & Wolfram  |             | J469                         | Chicago Pneumatic Tool<br>Chile Exploration Co.   | MN<br>N          |                      | Dobson Park Industries<br>Doornfontein  |                       | J270                             |
| ME J349<br>maigamated Metal Corp.  | MF          | 1354                         | ME J377 MF J382<br>Bethlehem Copper Corp.  | T           | M217                         | Chitradurga Copper Co.  | IA               | J526                 | Dosco Overseas Engineering  | lupp. M               |                                  |
| MF J297 ME J299<br>malgamated Petroleum  | MM<br>IA    | J438<br>J248                 | MF J017 MW J243<br>Bethlehem Copper Corp.  | P<br>MF     | M007<br>J608                 | Christiani and Neilsen<br>Chuquicamata Copper Co.   | IA<br>IA         | J395<br>J061         | A M379<br>Dotmar Chemicals  | IA                    | M49<br>J274                      |
| max (American Metal Climax) IA J033 IA J061  | MF          | J063                         | Bethlehem Steel<br>IA J526   | P           | M007                         | Churchill Copper<br>MF J387   | IA               | 425                  | Dowa Mining<br>IA J138  | MW                    | J54:                             |
| MF J083 MM J086<br>MF J144 MW J215   | IA<br>MF    | J100<br>J231                 | Billiton N.V.<br>IA J423   | MF          | J502                         | Churchill Falls (Labrador) Corp.<br>Cia. de Acero del Pacifico  | IA               | M479<br>J100         | Dowty Mining Equipment<br>M 1029 IA 1059  | мм                    |                                  |
| MM J304 MF J347<br>MW J467 N J485  | N<br>MW     | J389<br>J541                 | Bisichi Tin<br>Blair Athol Coal Pty.   | MF          | J212<br>J343                 | Cia Mineira do Lobito<br>Cia Minera del Madrigal  | IA<br>IA         | J119<br>J292         | MM J355 M J448 Dravo Corporation  |                       | J495<br>J064                     |
|  | MW          | J542<br>J571                 | Blasting International Co. Blyvooruitzicht   | MM<br>MF    | J108<br>J350                 | Cia Minera Santa Barbara<br>Cia Minera Santa Fe   | IA               | J397<br>J397         | Dresser Industries<br>Dresser O.M.E.  |                       | J019                             |
| max Exploration Inc.<br>mazonia Mineracao SA   | IA<br>MW    | J397<br>J198                 |  |             | lay 70                       | Cia Nacional de Materias Primas<br>Nucleares  | IA               | J248                 | O J284<br>Du Pont   |                       | M37<br>J019                      |
| nerada Hess Corp.<br>nerican Metal Climax (Inc.)   | IA          | 1599                         | MF J503 ME J509  | IA<br>MF    | J519<br>J590                 | Cia Vale do Rio Doce<br>IA J397   | М                | M142                 | Durban Deep   |                       |                                  |
| merican-South African Inv. Co.<br>MF J126  | MF          | J433                         | Borax Holdings<br>Borealis Exploration Ltd.  | MM          | J046<br>J571                 | Cie de Mokta<br>IA J120   | IA               | J228                 | Supp. Jan. 70 Son Duval Corporation   | IA                    | J495                             |
| merican Zinc<br>MF J167 MM J284  | IA          | J293                         | Borregaard<br>Botswana RST   | IA.         | J369                         | CIPEC<br>Cities Service Co.   | IA<br>IA         | J140<br>J009         |   |                       |                                  |
| MW J339<br>netalco   | MF<br>MM    | J435<br>J192                 | MF J383<br>Bougainville Copper Pty.  | P           | M093                         | Clark International Marketing S.A.<br>M J222 M J269   | М                | M505                 | E   |                       |                                  |
| noco<br>aconda   | IA          | J140                         | MF J212 IA J369<br>IA J429   |             | J376<br>J591                 | Clarke Chapman Group<br>Clarkson Co.  | IA<br>M          | J549<br>J247         | Eagle Gold Mines  |                       |                                  |
| IA J009 IX J141<br>IA J494   | IA<br>IA    | J205<br>J547                 | Bowmaker (Plant)   | MM          | J405<br>J506                 | Cleveland-Cliffs Iron Co.  MW J005 IA J013  | MM               |                      | IA JO11<br>Eagle-Picher   |                       | J085<br>J561                     |
| icar Oil<br>idaluza de Minas, S.A. Cia.  | A           | J525<br>M356                 | Bracken Mines Supp. Jan. 70 St Bralorne Can-Fer Resources  | ipp. M      |                              | MF J167 IA J202   | N<br>P           | J261<br>M337         | Earth Resources   | IA .                  |                                  |
| dean Mining Co.<br>derson Mavor  | IA          | J494                         | Brambles Industries  | M           | J030                         | MM J484 IA J493<br>Cleveland Potash<br>IA J495  |                  | J549                 | East Daggafontein   |                       |                                  |
| M J029 MM J304   | A<br>MM     | M377<br>J564                 | Brameda Resources<br>Brenda Mines  |             | 1080                         | Clutha Development  | IA               | J010                 | East Driefontein  |                       |                                  |
| des Copper<br>glo American Corp.   | N           | J413                         | IA J293<br>British Amalgamated Metal   |             | J321                         | Colonial Sugar Refining<br>IA J118  | IA               | J274                 | Supp. May 70  | Supp.                 | M009                             |
| MF J017 MM J018<br>IA J058 MF J063   | MM<br>MF    | J046<br>J279                 | Investments<br>British-Borneo  |             | J356                         | Comalco<br>IA J121 MF J144  | MF               | J208                 | East Geduld ME J507 Supp. Jan. 70   | Supp.                 | May                              |
| MW J113 MM J127<br>MW J197 IA J204   | IA<br>MF    | J138<br>J323                 | MF J606<br>British Insulated Callenders Cables   | MF<br>MM    | J620<br>J355                 | Comilog   | IA<br>IA         | J573<br>J275         |   | MF J                  | J580                             |
| MF 1329 MM 1355  | IA          | J423                         | British Metal Corp.<br>N J150 IA J399  | мм          | J513                         | Cominco   | IA<br>MM         | J035<br>1239         | East Rand Proprietary Mines<br>(E.R.P.M.) Supp. Jan. 70   |                       |                                  |
| N J442 MF J579<br>IA J471 MF J474  | MF          | J481                         | British Newfoundland Corp.<br>British Petroleum  | A           | M479<br>J333                 | IA J249 IA J494   | P                | M007<br>J597         | Eastern Minerals Finance  |                       | J138<br>J525                     |
| MF J529 ME J530  | MF          | J561<br>M096                 | British Rototherm<br>British Steel Corp.   |             | J461                         | Compagnie de Mokta<br>Concor Construction (Pty.)  | MF               | J562<br>M415         | Eastern Mining and Metals<br>MW J243  | IA J                  | J395                             |
| glo American Corp. of Canada<br>MM J405  |             | J459                         | IA J118 MW J153  |             | J159<br>J445                 | Cons. Diamond Mines of S W Africa   | P                | M092                 | Eickhoff  | M J                   | J290<br>M231                     |
| do American Investment Trust<br>do Rouyn Copper Mines  |             | J297<br>J369                 |  |             | M311                         | Consolidated Exploration<br>Consolidated Gold Fields  | IA               | J470                 | El Teniente SA  |                       | J413                             |
| plo-Transvaal Group<br>MF J063 ME J189   | MF          | 1279                         | M J135   | M           | M318                         | IA J033 IA J079<br>MF J188 MF J278  | IA<br>N          | J158<br>J442         | Eldorado Nuclear  | M N                   | M147                             |
| ME J282 MW J391<br>ME J505 ME J553   | ME          | J403<br>J557                 |  | MM .        | J255                         | MW J489 MF J557<br>Consolidated Gold Fields Australia   | T<br>MF          | M150<br>J209         |   |                       | 1470                             |
| d Mining   | P           | M251<br>J425                 |  |             | J206                         | Consolidated Halliwell Consolidated Morrison Expl.  | IA<br>IA         | J078<br>J598         | IA J182 ME J256 IA J275 Supp. Jan. 70   | MF J                  | 1257<br>May                      |
| k Mines<br>To International  | MF          | J284<br>J248                 |  |             | 1547<br>1573                 | Cons. Murchison<br>Consolidated Rutile  | MF               | J283<br>J140         | Empresa Colombiana de Emeraldas   | IA J                  | 1317                             |
| Exploration<br>our Co.   | IA          | J470<br>J466                 | Broken Hill South<br>MW J025   | MF I        | 1300                         | Consolidated Tin Smelters<br>ME J351  | MF               | J354                 | Empresa Nacional de Fundiciones   | IA J                  | 1361<br>1370                     |
| strong-Whitworth<br>co (American Smelting &  |             | J185                         | B.R.P.M. (Bureau de Recherches et de<br>Participations Minières)   |             | 1202                         | Continental Oil Co. Conzinc Riotinto of Australia   | IA               | J010                 | Engelhard Minerals and Chemicals  |                       | 1525                             |
| defining Co)   | Mar         | 1497                         | Brunswick Mining and Smelting<br>BTR Leyland Industries  | MI J        | 1279<br>M423                 | IA J031 MW J055<br>MF J164 MM J165  | MM<br>MF         | J067<br>J252         | English China Clavs   | MF J                  | 1355<br>1164                     |
| IA J061 IA J429<br>estos Corporation   |             | J487                         | Bucyrus-Erie Co.   |             | 4509                         | IA J276 MF J283   | IA               | J370                 | Equipment Minier  | A M                   | 127<br>4385                      |
| MW J027 MW J073  |             | J427<br>M073                 | Buffalo River Exploration  | IA J        | 1079                         | Cook, (Chas. W.) Ltd.   |                  | J547                 |   |                       | 271                              |
| inti Goldfields<br>MW J217   |             | J276                         | Supp. Jan. 70 Su   | pp. Ma      | y 70<br>249                  | M J115<br>Copper Range  | M                | M231                 | M J116  |                       | 545<br>117                       |
| worth Ross<br>sciated Lead   |             | M137<br>J241                 |  |             | 269                          | IA J344 MM J461<br>MM J484  | IA               | J471<br>J574         | Etosha Petroleum  | A J                   | 058                              |
| ociated Manganese Mines  |             | J435                         |  |             |                              | Copperfields Mining Corp. Corfo   |                  | J084<br>J369         | European Primary Aluminium Assoc. I   | A J                   | 140<br>472                       |
| ME J433  |             |                              |  |             |                              |   |                  |                      | PARTIE PARTIE HINNESTLICZ   | rs 34                 |                                  |
|  |             | 1101                         | C Cable (1956) Ltd.  |             |                              | Corner House group<br>MF J063 MF J279<br>Cornish Tin and Mining Corp.   |                  | J580<br>J343         |   |                       | 597<br>080                       |

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| Fagersta Bruks<br>Fairey Surveys                              |                   |          |                      | N              | J115                 | Hindustan Copper<br>Hindustan Zine Ltd.<br>Hochschild group<br>Holland Aluminium                    | IA<br>MM        |                      | Kennecott Copper   Metalligesellischaft A.G.   I/A   1009   IA   1031   IA   1100   Metals Exploration   IA   1101   MF   1106   IA   1139   MF   1017   IA   1117   IA   11 |
|---|-------------------|----------|----------------------|----------------|----------------------|---|-----------------|----------------------|--|
| Falcon Mines<br>Falconbridge Nic<br>IA JO                     | kel<br>010        | IA       | J059                 | N              | IF J211              | IA J225<br>Holman Brothers<br>MM J046 M J177  | IA<br>IA        | J274<br>J205         | N J441 MM J484 IA J497 P M337 Metry Engineering M Kent Instruments Ltd. IA J601 Msd-East Minerals  |
| IA JI   | 149<br>184<br>119 | MF       | J154<br>J209<br>M076 | M              | W J309<br>M253       |   | A               | M385<br>M422         | Keradamex Inc.         IA         J470         MW         J153         IA         J223         M           Kerr-Addison Mines         IA         J225         IA  |
| Fearnley and Ege<br>Federal Resource                          | es                | artering | 3                    | N<br>D         | J078                 | IA J185<br>Hudson Bay Mining<br>MF J165 MW J219   | MF              | J483<br>J345         | M J491 IA J358 ME J282 MF J375 MI<br>Kilembe Mines MW J391 ME J403 P<br>IA J037 IA J118 IA J429 Midland-Ross Corp.   |
| Fenner Internation<br>Fletcher Sutcliffe<br>Fluidrive Enginee | e and V           | ₩ild     |                      | M<br>L         | J473                 | Robert Hudson (Raletaux)<br>Humble Oil and Refining   | M               | J395<br>M073         | King Island Scheelite IA J079 MW J093 T M217 Minbanco Corporation M Minefields Exploration IA  |
| Fluor Australia P<br>Flygt AB                                 | 157<br>'ty.       |          |                      | IA<br>A        | M383                 | IA J204 MM J255<br>Humphreys & Glasgow<br>Humphreys Ltd.  | IA<br>IA        | J275<br>J294<br>J598 | Kinross Minera Frisco IA ME J507 Supp. Jan. Supp. May Minera Frisco IA Kiruna AB A M197 Mineral Securities Australia   |
| A/S Folldal Verk<br>Foxboro-Yoxall<br>Free State Geduk        | ì                 |          |                      | M              |                      | Hy-Mac<br>Hydra Exploration Ltd.<br>Hydraulic Drilling Equipment                                    | M<br>IA         | J155<br>J571         | Klockner-Humboldt-Deutz M J315 P M005 P M339 Kloof Gold Mining Mining Finance Corp. IA   |
| MF JO.<br>Supp. M:<br>Freeport Sulphur                        | 39<br>av          | ME J     | 1042                 | Su             | pp. Jan              | M J422  | M               | M510                 | IA   J033   Supp. Jan.   Supp. May   Mining Fransportation Co. AB   A   Minops group   Mw J175   IA   J250   IA   J031   IA   J031   IA   Minops group   M |
| MM JOS<br>LA J10<br>LA J22                                    | 16<br>02          | IA J     | 059<br>138<br>311    | MY<br>ME<br>LA | J191                 | I<br>Ideal Basic Industries   | мм              |                      | IA J399 MF J615 Mitchell Cotts Koehring S.A. M J342 LA J398 M  |
| P M1<br>Freeport Sulphur                                      |                   |          | 1285                 | T              | M431                 | Idris Hydraulic<br>MF J126  | MF              | J606                 | Kokan Mining MW J243 Mitsubishi Metal Mining<br>Komatsu IA J227 IA 1250 IA   |
| Furukawa Mining<br>IA 149<br>Fuyo Ocean Devel                 |                   | nt       |                      | IA<br>IA       | J573<br>J601         | I.H.C. Holland group<br>I.L.Z.R.O.<br>Impala Mines  | N               | J523<br>J518<br>J078 | Kratos Uranium IA 1423 IA 1472 IA Krupp Gmbh MW 1005 Mitsui Mining   |
| G   |                   |          |                      |                |                      | Impala Platinum MW 1243 Imperial Chemical Industries (I.C.I.)                                       | ME              | J280                 | E JA J223 MW J268 IA<br>MW J310 IA J344 IA<br>IA J395 MW J445 IA   |
| Gardner-Denver<br>M J31                                       | 4 N               |          | 1507                 | м              | M511                 | M J096 IA J471  | M               | J527<br>M311<br>J419 | La Luz Mines IA J160 Mokta group IA Lake View and Star MF J1579 Molybdenum Corp. of America MF J143 MF J579 MW J074 MM J484 E  |
| AB Gavle Vagnve<br>GEC-Elliott Autom<br>M J00                 | ation             |          |                      | M              | J365<br>J549         | Industrial Dev. Corp. of S Africa<br>Industrial & Scientific Supply Co.<br>Industrial de Sondeos SA | M               | J395<br>M225<br>M387 | Lamadec Exploration IA J117 IA J470 Monsanto Research Corp. Monte Cristo Corp.   |
| GEC-Elliott Mecha<br>Gecomin<br>Geduld Proprietary            | nical H           | landlin  | g                    | IA<br>IA       | J495<br>J080         | Industrias Penholes<br>Ingersoll -Rand  | IA .            | M387<br>M385         | Operating Co. A M168 MF J614 Monteponi & Montevecchio SpA A Motor Rail   |
| MF 1190   |                   | IF J3    | 02                   | ME<br>MF       | J383<br>J384         | Inland Steel Institution of Mining and Metallurgy   | IA I            | 1010                 | Laverton Nickel NL IA J317 Mount Carrington Mines IA Leichardt Copper Explor. IA J292 Mount Isa  |
| Geevor Tin<br>MF 3041<br>General Electric Co                  |                   |          |                      | MF<br>M        | J190<br>J030         | Instituto de Fomento Industrial<br>Interamer Research Corp.   | IA J            | 1489<br>1369<br>1343 | Leichtmetallgeetlischaft GmbH         P         M441         IA         J059         MF         J143         M           Leopold Minerals         IA         J248         IA         J160         IA         J472         M           Leulie Gold Mines         MF         J298         IA         J344         MF   |
| eneral Mining and<br>eneral Mining grow<br>MF J063            | up M              | M J2     | 39                   | MF             | J212<br>J351         | International Finance Corp.   | A J             | 1418<br>140<br>317   | ME J506 Supp Jan Supp May IA J599 P M093 T<br>Le Tourneau Inc. M M415 M<br>Liard Copper IA J223 Mount Lyell IA   |
| IA J471<br>seneral Motors<br>seneral Services Ad              | М                 | F 15:    | 52                   | MF             | J606<br>M505         | International Harvester   |                 | 291                  | Libanon Mount Newman Mount Newman IA J141 MW J153 IA LIO MF J614 IA J41 MW J153 IA   |
| MW J113<br>IA J345<br>IA J452                                 | IA<br>N           | 141      | 15                   | IA<br>IA       | J185<br>J429<br>J550 | MM 1086<br>International Mogul Mines  | MF J            | 153<br>017<br>141    | Lion Mines   IA   1292   M.T.D. (Mangula)   MF   |
| etty Oil<br>ippsland Minerals<br>KN (Guest, Keen &            |                   |          |                      | MM<br>IA       | J461<br>J493         | International Nickel  IA J013 IA J037 9   | am J            | 046<br>097           | Lithium Corporation of America N J022 G.W. Murphy Industries Litton Industries MW J094 M J269 M  |
| IA J013<br>oodrich, B.F.<br>openg                             |                   | arcau,   |                      | M<br>M         | J394<br>M509         | IA J102 MW J113 1<br>IA J160 IA J183 1  | M J             | 154                  | LK.A.B  IA J120 IA J185 IA J473 IA J528 D M151   |
| MF J475<br>overnment Gold M<br>ME J559                        |                   | Areas    |                      | -              | J480                 | MM J355 MF J401 I   | A J             | 231<br>449<br>547    | F.H. Lloyd and Co. IA J185 N<br>Lockwood Survey Corp. M M147<br>London Metal Exchange S J038 Nabalco   |
| R. Grace & Co.  |                   |          | 1                    | IA             | J561<br>J058<br>J395 | International Nuclear Corp. International Ocean Engg. Econ, Union N International Salt Co. II.      | 1 1;            | 183<br>291<br>223    | Longorach Metals Longreach Metals IA J097 IA J449 National Coal Board  |
| rangesberg<br>IA J423<br>reat Boulder                         |                   | 147      |                      |                | J608                 | Interstate Oil  |                 | 161                  | Lonrho Ltd.  MW J073 IA J159 MF J233 IA J160 MW J311 IA  ME J237 MF J335 MF J535 IA J429 IA J470   |
| IA J059<br>eat Whale Iron Mir                                 | nes               |          | 1                    | WW<br>A        | J343<br>J392<br>J399 | IRECO Chemicals IA J527 Irish Base Metals   | N J5            | 01                   | MW J568 IA J598 P M165 M M074 A M115 M Loraine Supp. Jan. Supp. May 70 National Lead   |
| eengate and Irwell<br>eenwood & Batley<br>M J421              |                   | er Co.   |                      |                | M379<br>M073         | Irish Metal Mining Iron Ore Co. of Canada Ishikawajima-Harima Heavy                                 |                 | 178<br>191           | Lornex Mining Corporation N J241 IA J370 IA MF J018 N J305 MW J391 National Zinc MW  |
| ootviei<br>ME J508<br>oup Explorations                        | Sup               | p. Jan   |                      | Supp.          | May<br>J182          | Industries I/I<br>Island Copper Corp. P<br>Island Mining Co. I/I                                    | M.              | 51<br>339            | LA J204 Supp. Jan. Supp. May MF J323 ME J479 MW Lydenburg Platinum Neptune Coal Terminals M  |
| ardian Mines<br>If Chemical                                   |                   |          | E.                   | Α .            | J182<br>J370         | Italsider I/  |                 |                      | Lytton Minerals LA J033 New Broken Hill MF J189 MF J253 ME   |
| If Oil MW J054 If Resources                                   |                   |          | L                    | Α .            | J369<br>J343         | 1   |                 |                      | M New England Antimony Mines IA New Guinea Goldfields  |
| lick Dobson   |                   |          | A                    |                | M375                 | Jantar M Japan Light Metal Co. LA J249 LA   | J2:             | 50                   | Machinoexport   A   M381   IA   J423   IA   Machinoexport   Machinoexport   IA   J427   IA   J428   IA   J429   J429   IA   J429   J429  |
| glund   |                   |          |                      |                |                      | Jarvis Clark M Jeffrey Manufacturing Co. M W.J. Jenkins IA  | J3<br>J46<br>J5 | 59                   | Magnesium Elektron 1A 1138 IA 1157 MF J Malayan Tin MF J191 New York and Honduras Rosario MF J Mallina Mining and Exploration Newconex Canadian Exploration 1A 1   |
| M J179<br>mersley Holdings<br>MF J123                         | MF                | J191     | M                    | IF J           | 212                  | Johannesburg Consolidated<br>Investment<br>IA J009 MI   |                 |                      | IA J100   MW J419   Newconex Holdings   MF J<br>  Marcona Corporation   Newell Dunford   MM J<br>  IA J078   IA J120   M J314   Newmetal Mines Ltd,   IA J   |
| IA J228<br>nersley fron Pty.<br>IA J011                       | MF                | J016     | M                    |                | 231                  | Johns-Manville Corporation M!  Johnson-March M  Johnson, Matthey                                    | M3              | 18                   | IA J321 IA J395 M J545 Newmex Explorations IA J Marievale Newmont Mm J Newmont IA J  |
| P M009<br>scock and Wright                                    | T                 | M217     |                      | 5              | 4335<br>4337<br>158  | MM J461 A Joutel Copper MN Joy Mfg.   | MI:             |                      | IA J450 ME J508 Supp. Jan. Nippon Light Metal<br>Supp. May IA J102 IA J184 IA J  |
| dy and Harman<br>na Mining<br>N 1261                          | ĮΑ                | J321     | N<br>IA              | J              | 129                  | MM 1284 M 1545 M  | МО              | 74                   | MF J615 P M091 Nippon Mining Marine Int. Dev. Corp. IA J601 IA J119 IA J   |
| mony  | Supp              |          |                      | ipp. N         | fay                  | K<br>Kaiser Aluminum  |                 |                      | Marubeni-lida IA J290 IA J292 N J. IA J184 IA J276 IA J292 IA J345 MW J521 IA J  |
| ebeestfontein<br>Supp. Jan.                                   |                   |          |                      |                | 1503<br>tay 70       | IA J011 MW J133 IA<br>MF J236 MW J310 IA  | J20<br>J35      | 6                    | Marwin Group MM J212 Nisshin Steel Co. IA J0 Mary Kathleen Uranium Nissho-lwai   |
| IA J202<br>ker Siddeley                                       |                   | J274     | IA                   |                | 547                  | MM J376 MW J417 N MF Kaiser Exploration MM  |                 | 9                    | MF J168 IA J293 MF J018 IA J080 IA J5<br>Massey-Fergusson UK. M M507 Nitro Consult AB M J1<br>Matbro Ltd. IA J599 Nittetsu IA J1   |
| M J007<br>M J116<br>kstone Minerals                           | MM                | 1019     | MI<br>M<br>IA        | 10             | 046<br>201<br>031    | Kaiser Industries MW Kaiser Minerals MM Kaiser Resources IA   | 154             | 3<br>5               | Mattagami Lake Mines   Noranda Copper Mills   MM   15   MM   15   MM   15   MM   15   MM   15   MM   15   MM   16   MM   16  |
| Wrightson<br>IA J497<br>th Steele Mines                       |                   |          | MA                   | M J2           | 255                  | Kaiser Steel Corp. MM 1147 IA T. Kakiuchi and Co. MW  | J451<br>J243    |                      | Mayor & Coulson   A   M377   MW   J154   MM   J286   MW   J1   MC Ullough Mining Enterprises   IA   J058   MF   J475   MW   J5   MC Ullough Mining Enterprises   Nordberg Mfg   M   J2   M   J2   M   J3   M   J4   M   M   J5   M   M   J5   M   M   M   M   M   M   M   M   M  |
| Industries Inc.   |                   |          | M                    | М              | 318<br>143           | Kam-Kotia Mines MM<br>Kambalda Minerals IA  | J108            |                      | MM J046 MF J209 IA J343 Norfolk and Western Railway MW J3<br>MF J410 MF J503 Norlex Mines  |
| M J029<br>sland Valley  | М                 | J096     | M<br>IA              |                | 316<br>01            | Kanematsu-Gosho IA Kathleen Investments IA Kawasaki Steel Co.                                       | J274<br>J427    |                      | Arthur G McKee         IA         J157         IA         J3           IA         J141         M         J448         North Broken Hill           McNeil Corporation         MM         J212         MF         J104         MF         J3   |
| imont Mining<br>IA J183                                       |                   |          | IA                   | J3             | 17                   | IA J321 IA<br>Kendavis Industries M   | J345<br>M49     |                      | Messina (Transvaal) MW J053 MF J062 ME J065 North Flinders Mines IA J3   |

| Northern Antimony IA  |  | Rautarukki Oy   | 1/                    |                      | Southern Malayan Tin   |                             | IF J191                              | Urangesellschaft  |   |
|---|--|---|-----------------------|----------------------|--|-----------------------------|--------------------------------------|---|---|
| Northern Mining Corp. N.L. IA   | J571   | Ravensthorpe Copper<br>Real Cia. Asturiana de Minas   | 1/                    |                      | Southern Ocean Exploration<br>Southern Peru Copper   | M                           | W 1198                               | IA J121 IA J24  |   |
| Northgate Exploration<br>MF J126 MF J166 MI   | F J191                                       | Renzy Mines   | 1/                    |                      | IA JOI1 IA JOI3  | 2 M                         | W J025                               | Uranium Valley Mines<br>Usinor  | IA J292<br>IA J548  |
| IA J204 MF J298 IA  |  | Rexspar Minerals and Chemicals  | 1.4                   |                      |  |                             | W J361                               | Utah Construction & Mining  | 1/4 3340  |
| MF J435 MF J505 MI  |  | Reynolds Metals   |                       |                      | Southland Mining   | 1/                          |                                      | IA J140 MF J20  | 8 MF J258   |
| Northwest Oil and Minerals IA   | J182   | MF J126 IA J24  |                       |                      | Southvaal Holdings   | M                           |                                      | MW J265 IA J31  | 9 MW J419   |
| Nuclear Enterprises Ltd. M J077 M   | M225   | Photoset Power by bloom to 44   | I.A                   |                      | Spaarwater   | M                           |                                      | Utica Mines   | IA J344   |
| Nuclear Exploration and Dev. JA   |  | Rheinische Braunkohlenwerke At<br>Rhodesian Corporation   | G A                   | M391                 | Spooner Mines<br>Sprengnether Instrument Co  | I/<br>M                     |                                      |   |   |
| Nuttall Holdings  |  | ME J480   | M                     | F J482               | Standard Metals Corporation  | 10.8                        | M-420                                | v   |   |
| IA J182 IA  | J251   | Rhokana Corporation   |                       |                      | IA J031  | 1/                          | J157                                 | •   |   |
| 0   |  | IA J294 MF J32  | 3 M                   |                      | States of Malaya Chamber of Mines  | 8                           |                                      | Vaal Reefs  | Supp. Jan   |
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| PHILIPPINES Development of mineral wealth M   | N J565<br>P M293   | Transport problems Filling a gap International manpower unit N.M.F. buys S.A. gold Golden Seventies? Murchison expands. Palabora—low cost copper.   | N J518<br>AW J551<br>IA J556<br>Oct. 30<br>P M095<br>P M097   | Metry's contract S.A. uranium for U.K. N.U.M. strike threat Minerals legislation?  | IA J033  | 100-ton dumptrucks  |
| PHILIPPINES Development of mineral wealth P.M.CPhilippines joint ven-   | W J551<br>N J565<br>P M293<br>W J043   | Transport problems Filling a gap International manpower unit N.M.F. buys S.A. gold Golden Seventies? Supp Murchison expands Palabora—low cost copper. Taumeb deepening  | N J518<br>AW J551<br>1A J556<br>Oct. 30<br>P M095<br>P M097<br>P M099   | Metry's contract S.A. uranium for U.K. N.U.M. strike threat Minerals legislation? Nuclear techniques in ex-  | IA J033<br>IA J033<br>MW J045  | 100-ton dumptrucks M M441<br>B.P. North Sea oil find P M473<br>U.S.A.<br>Sierrita adds its weight MW J005   |
| PHILIPPINES Development of mineral wealth P.M.CPhilippines joint venture  | W J551<br>N J565<br>P M293<br>W J043   | Transport problems Filling a gap International manpower unit N I.M.F. buys S.A. gold Golden Seventies? Supp Murchison expands. Palabora—low cost copper. Taumeb deepening Zwartkloof to produce   | N J518<br>AW J551<br>IA J556<br>Oct. 30<br>P M095<br>P M097<br>P M099<br>A M125   | Metry's contract S.A. uranium for U.K. N.U.M. strike threat Minerals legislation? Nuclear techniques in exploration  | IA J033<br>IA J033<br>MW J045<br>IA J048   | 100-ton dumptrucks. M M441<br>B.P. North Sea oil find P M473<br>U.S.A.<br>Sierrita adds its weight MW J005<br>Progress in U.S.A. MW J005  |
| PHILIPPINES Development of mineral wealth P.M.CPhilippines joint venture Lapan's key role in copper   | W J551<br>N J565<br>P M293<br>W J043   | Transport problems Filling a gap International manpower unit M. I.M.F. buys S. A. gold Golden Seventies? Supp Murchison expands. Palabora—low cost copper. Tsumeb deepening Zwartkloof to produce Mechanised gold mining  | N J518<br>AW J551<br>IA J556<br>Oct. 30<br>P M095<br>P M097<br>P M099<br>A M125<br>T M145   | Metry's contract S.A. uranium for U.K. N.U.M. strike threat Minerals legislation? Nuclear techniques in exploration Soviet diamond sales to U.K.   | IA J033<br>IA J033<br>MW J045<br>IA J048<br>IA J051  | U.S.A. Sierrita adds its weight MW J005 Progress in U.S.A. My J005 Stockpile bill approved MW J027  |
| PHILIPPINES Development of mineral wealth P.M.CPhilippines joint venture Lapan's key role in copper Pom reports Universal Oil's nickel find   | W J043<br>W J043<br>W J043<br>IA J161<br>N J198<br>IA J226<br>IA J294            | Transport problems Filling a gap International manpower unit M. I.M.F. buys S. A. gold Golden Seventies? Supp Murchison expands. Palabora—low cost copper. Tsumeb deepening Zwartkloof to produce Mechanised gold mining Hydraulic hoisting Water   | N J518<br>AW J551<br>IA J556<br>Oct. 30<br>P M095<br>P M097<br>P M099<br>A M125<br>T M145<br>M M159<br>E M289                       | Metry's contract S.A. uranium for U.K. N.U.M. strike threat Minerals legislation? Nuclear techniques in exploration Soviet diamond sales to U.K. Drilling in South Wales Exploration in Scotland Metrophysics Metrophysics   | IA J033<br>IA J033<br>MW J045<br>IA J048<br>IA J051<br>IA J051<br>MW J063                                  | 100-ton dumptrucks. M M441<br>B.P. North Sea oil find P M473<br>U.S.A. Sierrita adds its weight MW J005<br>Progress in U.S.A. MW J007<br>Stockpile bill approved MW J027<br>G.S.A. stockpile release bill 1 J J034                          |
| PHILIPPINES Development of mineral wealth P.M.CPhilippines joint venture Japan's key role in copper Pom reports Universal Oil's nickel find Geological reports from Pom   | W J043<br>W J043<br>W J043<br>IA J161<br>N J198<br>IA J226<br>IA J294<br>IA J507 | Transport problems Filling a gap International manpower unit M. I.M.F. buys S. A. gold Golden Seventies? Supp Murchison expands. Palabora—low cost copper. Tsumeb deepening Zwartkloof to produce Mechanised gold mining Hydraulic hoisting Water Tunnelling enters new era   | N J518<br>MW J551<br>1A J556<br>Oct. 30<br>P M095<br>P M097<br>P M099<br>A M125<br>T M145<br>M M159<br>E M289<br>A M298             | Metry's contract S.A. uranium for U.K. N.U.M. strike threat Minerals legislation? Nuclear techniques in exploration Soviet diamond sales to U.K. Drilling in South Wales Exploration in Scotland Mphillips oil find commercial.  | IA J033<br>IA J033<br>MW J045<br>IA J048<br>IA J051<br>IA J051<br>MW J063<br>MW J065                       | U.S.A. Sierrita adds its weight Progress in U.S.A. Stockpile bill approved G.S.A. stockpile release bill Economic anti-pollution recovery  MW 1043  |
| PHILIPPINES Development of mineral wealth P.M.CPhilippines joint venture Lapan's key role in copper Pom reports Universal Oil's nickel find Geological reports from Pom Copper discovery in Philip-                               | W J043<br>W J043<br>W J043<br>IA J161<br>N J198<br>IA J226<br>IA J294<br>IA J507 | Transport problems Filling a gap International manpower unit N I.M.F. buys S.A. gold Golden Seventies? Supp Murchison expands Palabora—low cost copper Tsumeb deepening Zwartkloof to produce Mechanised gold mining Hydraulic hoisting Water Tunnelling enters new era Open pit technology   | N J518<br>MW J551<br>IA J556<br>. Oct. 30<br>P M095<br>P M097<br>P M099<br>A M125<br>T M145<br>M M159<br>E M289<br>A M298<br>A M401 | Metry's contract S.A. uranium for U.K. N.U.M. strike threat Minerals legislation? Nuclear techniques in ex- ploration Soviet diamond sales to U.K. Drilling in South Wales Exploration in Scotland Mphillips oil find commercial. M U.S. interest in Sussex  | IA J033<br>IA J033<br>MW J045<br>IA J048<br>IA J051<br>IA J051<br>MW J063<br>MW J065<br>IA J072            | U.S.A.  Sierrita adds its weight Progress in U.S.A.  MW J005 Progress in U.S.A.  MW J007 Stockpile bill approved G.S.A. stockpile release bill Economic anti-pollution recovery MW J043 Minerals research policy MW J043 MW J044            |
| PHILIPPINES Development of mineral wealth P.M.CPhilippines joint venture Japan's key role in copper Pom reports Universal Oil's nickel find Geological reports from Pom Copper discovery in Philippines                           | W J043<br>W J043<br>W J043<br>IA J161<br>N J198<br>IA J294<br>IA J294<br>IA J507 | Transport problems Filling a gap International manpower unit M. M. F. buys S. A. gold Golden Seventies? Supp Murchison expands. Palabora—low cost copper. Taumeb deepening Zwartkloof to produce Mechanised gold mining Hydraulic hoisting Water Tunnelling enters new era Open pit technology Nuclear bett weigher                           | N J518<br>MW J551<br>1A J556<br>Oct. 30<br>P M095<br>P M097<br>P M099<br>A M125<br>T M145<br>M M159<br>E M289<br>A M298             | Metry's contract S.A. uranium for U.K. N.U.M. strike threat Minerals legislation? Nuclear techniques in exploration Soviet diamond sales to U.K. Drilling in South Wales Exploration in Scotland Phillips oil find commercial. U.S. interest in Sussex Strata Control Conference.  | IA J033<br>IA J033<br>MW J045<br>IA J048<br>IA J051<br>IA J051<br>MW J063<br>MW J065<br>IA J072<br>IA J074 | U.S.A. Sierrita adds its weight MW J005 Progress in U.S.A. MW J007 Stockpile bill approved MW J027 G.S.A. stockpile release bill Economic anti-pollution recovery MW J043 Minerals research policy MW J044 Wyoming uranium reserves IA J048 |
| PHILIPPINES Development of mineral wealth P.M.CPhilippines joint venture I apan's key role in copper Pom reports Universal Oil's nickel find Geological reports from Pom Copper discovery in Philippines M.M.I.C. dollar loan ap- | W J043<br>W J043<br>W J043<br>IA J161<br>N J198<br>IA J294<br>IA J294<br>IA J507 | Transport problems Filling a gap International manpower unit N LM.F. buys S.A. gold Golden Seventies? Supp Murchison expands Palabora—low cost copper Taumeb deepening Zwartkloof to produce Mechanised gold mining Hydraulic hoisting Water Tunnelling enters new era Open pit technology Nuclear belt weigher Protection of funnels in deep | N J518<br>MW J551<br>IA J556<br>. Oct. 30<br>P M095<br>P M097<br>P M099<br>A M125<br>T M145<br>M M159<br>E M289<br>A M298<br>A M401 | Metry's contract S.A. uranium for U.K. N.U.M. strike threat Minerals legislation? Nuclear techniques in ex- ploration Soviet diamond sales to U.K. Drilling in South Wales Exploration in Scotland Phillips oil find commercial. A U.S. interest in Sussex Strata Control Conference Aluminium smelters' progress  | IA J033<br>IA J033<br>MW J045<br>IA J048<br>IA J051<br>IA J051<br>MW J063<br>MW J065<br>IA J072<br>IA J074 | U.S.A.  Sierrita adds its weight Progress in U.S.A.  MW J005 Progress in U.S.A.  MW J007 Stockpile bill approved G.S.A. stockpile release bill Economic anti-pollution recovery MW J043 Minerals research policy MW J043 MW J044            |

| U.S. interest in Sussex         | IA J072            | Ferroalloy imports                   | MW J287  | Smelter problems              | IA J509            | Mining from the sea                                 | IA J321            |
|---------------------------------|--------------------|--------------------------------------|----------|-------------------------------|--------------------|---|--------------------|
| Haiti bauxite development       | IA J073            | Coal goes inter-continental.         | N J281   | G.S.A. tin sales              | IA J510            | U.A.R. steel works                                  | IA J322            |
| G.S.A. fluorspar sales offer    | IA J075            | Gullick Dobson U.S. order            | M J291   | U.S. to lift uranium embargo  | IA J510            | Bolivia moves left                                  | N J333             |
| Extension of steel pact urged   | IA J075            | Kerr McGee copper find               | IA J294  | Mining law changes urged      | MW 1521            | Power needs will double !                           | MW J337            |
| Flood tide for copper           | N J085             | U.S. aids Brazil iron ore            | 114 3427 | Steel and coal                | MW J523            | Siberian coal                                       | IA J411            |
| Texas Gulf solution mining.     | IA J095            | company                              | IA J297  | Kaiser cuts production        | IA J532            | Japan takes breath                                  | N 3421             |
| Japan/U.S. aluminium plant      | IA J098            | American Zinc closes refinery        | IA J298  | Metallurgical coke            | IA J533            | Soviet coal imports                                 | MW J453            |
| Anaconda aluminium plant        | IA J098            | Zinc mine closes                     | IA J322  | U.S. copper set-asides re-    |                    | U.S. stockpile investigation                        | MW J479            |
| Bolivian concern over stock-    |                    | Challenge of change                  | N J309   | voked                         | IA J533            | Aluminium expansion plans                           | MW J549            |
| pile sales                      | IA J099            | Steelmakers thinking big             | MW J314  | Tin disposal hearing post-    |                    | Moscow copper forum                                 | MW J549            |
| U.S. nickel export restrictions |                    | Treatment for acid waters            | M J316   | poned                         | IA J533            | Soviet equipment                                    | M J552             |
| lifted                          | IA J099            | Erie mining production               | IA J321  | Offshore tangle               | N J545             | A difficult year                                    | N J566             |
| U.S. tungsten disposal talks    | 1A J099            | Bolivia moves left                   | N J333   | Record mineral exports        | MW J551            | New investments                                     | IA J575            |
| Easing from recession           | N J109             | U.S. tax action delayed              | MW J337  |                               | MW J551            | Apatite mining in Russia                            | A M013             |
| Pollution-free extraction pro-  |                    | U.S. draglines for U.K. coal         |          | Wire ropes for U.S.           | M J553             | Russia in expansive mood                            | A M022             |
| cess                            | MW J113            | mining                               | M J339   | American steel production     |                    | Dust collector                                      | D M081             |
| U.S. pricing hearings           | MW J115            | Agreement on Maine leases            | IA J340  | forecast                      | IA J555            | Conveyor for openpits                               | D M083             |
| New Mexico copper mine          | IA J120            | Amax diversification success         | IA J341  | Brush Beryllium metallurgical |                    | Deployment of labour                                | D M084             |
| Asarco lead smelter closure     | IA J121            | Poor outlook for steel               | IA J341  | progress                      | IA J555            | Massive blasts                                      | D M084             |
| G.S.A. chromite sales           | IA J121            | Alcoa cuts production                | IA J342  | Kaiser Aluminum revises       |                    | Down-the-hole hammer drill                          | D M162             |
| U.S. proposals for seabed use   | IA J121            | Leadville refinery plans             | IA J342  | prices                        | IA J556            | Blasting  | D M368             |
| Frontiers at sea                | N J129             | Steel boom slows down                | N J353   | Silver dollar bill agreement. | IA J556            | Work studies at Olenegorsk                          |                    |
| Mercury extraction process      | M J137             | Assuring future Ni supplies          | N J355   | A difficult year              | N J565             | open pit  | D M459             |
| Anaconda finds new mineral-     |                    | Outlook for 1971                     | MW J358  | Aluminium producers hopeful   | MW J571            | Scandium  | A M499             |
| isation                         | IA J139            | Waste disposal in the earth's        |          | Outlook for aluminium         | IA J577            |   |                    |
| Short U.S. steel supplies       | IA J142            | crust                                | M J361   | U.K. antimony                 | T M059             |   |                    |
| G.S.A. offers columbium         | IA J142            | Tower Resources aids U.S.            |          | Colloidal concrete            | M M069             | VENEZUELA   |                    |
| Leaded petrol and pollution     | IA J167            | copper company                       | IA J365  | Tunnel borer                  | M M073             | Venezuelan nickel                                   | IA J295            |
| Strike at Shirley Basin         | IA J167            | Amax refined lead cutback            | IA J369  | Circular grate pelletiser     | M M075             | Challenge of change                                 | N J309             |
| U.S. coal measures com-         |                    | Anaconda cuts aluminium              |          | Borehole probe                | D M083             | Iron ore  | IA J577            |
| mittee?                         | IA J167            | output                               | IA J369  | Research finance              | E M093             | P.D.T.S. in Latin America                           | P M007             |
| U.S. minerals policy bill       | IA J168            | New U.S.B.M. director                | MM J377  | Mining in America             | R M129             |   |                    |
| Utah's uranium sale             | IA J168            | U.N. aid for developing              |          | Twin Buttes                   | A M182             |   |                    |
| Mixed views on silver           | N J177             | countries                            | N J383   | Underground concreting        | A M199             | YUGOSLAVIA  |                    |
| Worsening tungsten shortage     | MW J182            | Prediction on copper                 | MW J385  | Lead price declines           | T M221             | Kaiser's Yugoslav talks                             | IA J095            |
| U.K.A.E.A. American con-        |                    | Salt Lake minerals dispute           | MW J386  | Copper slide continues        | T M221             | Yugoslavian aluminium fore-                         | 47. 2011           |
| tract                           | M J185             | Problems shared                      | MW J386  | Mining developments           | A M243             | cast  | IA J411            |
| Halls Peak U.S. deal            | IA J186            | U.S. pelletising complex in          |          | Metallised pellets            | P M293             | Yugoslav aluminium mill                             | IA J532            |
| \$500 million coal contract     |                    | view                                 | MW J387  | Tunnel boring rates           | M M348             |   |                    |
| for Amax                        | IA J187            | Producers align at 56 cents          | MW J387  | Pictorial history of American |                    |   |                    |
| U.S. producers cut lead price   | S J189             | Continental Oil copper find          | 1A J390  | mining                        | R M425             | ZAMBIA  |                    |
| Japan's key role in copper      | N J197             | Arctic research pool urged           | IA J391  | U.S. underground safety       |                    | Anglo's reorganisation "New" Nchanga—good start     | IA J012            |
| U.S. shortage feared            | MW J200            | Queensland vanadium project          | IA J391  | project                       | M M447             | "New" Nchanga—good start                            | MF J015            |
| U.S. a net exporter             | MW J201            | G.S.A. tungsten sales                | IA J394  | Conservation realism          | E M469             |   | MW J027            |
| Federal Resources progress      | IA J210            | Testing time ahead                   | N J401   |                               |                    | Amax and R.S.T                                      | N J041             |
| Kaiser/A.E.C. waste project     | IA J210            | Flood control for Kennecott          | IA J411  |                               |                    | Chinese loan for Tan-Zam                            |                    |
| Rio Algom seeks construc-       |                    | More U.S. silver                     | IA 3411  | U.S.S.R.                      |                    | rail  | IA J049            |
| tion bids                       | IA J210            | Aluminium from National-             |          | U.S.S.R. aid to Pakistan      | IA J013            | Further Zambian negotia-                            |                    |
| Test case on U.S. copper        | IA J211            | Southwire                            | IA J411  | Soviet aid for C.A.R          | IA J031            | tions   | IA J051            |
| Okinawa aluminium plan          |                    | Kaiser ups nickel price              | IA J412  | Japan/Soviet nickel talks     | IA J033            | Tan-Zam rail project                                | IA J073            |
| passed                          | IA J211            | Japan takes breath                   | N J421   | Soviet diamond sales to U.K.  | IA J051            | Flood tide for copper?                              | N J085             |
| Chile's choice                  | N J217             | Importance of Canadian coal          | MW J423  | Soviet oceanographic survey   | IA J072            | Zambia's stake in Kansanshi                         | IA J095            |
| Case for aluminium smelting     | MW J223            | Picking a copper price               | MW J423  | Russian copper venture        | IA J073            | Zambian prospecting talks                           | IA J119            |
| U.S./Japan pellet plant         | IA J227            | How far will silver prices rise?     | MW J425  | Russian coal for Japan?       | IA J075            |   | MW J151            |
| Inflation and world trade       | N J237             | Disposal bills pending               | MW J425  | U.K. anti-dumping duty        | IA J142            | Deepening S.O.B.                                    | 1A J187            |
| Spreading concern on pollu-     | *****              | Zinc output cuts in prospect         | IA J435  | Nickel refined in Japan?      | IA J142            | Japan's key role in copper                          | N J197             |
| tion                            | MW J241            | U.S. loan to Congo/Kinshasa          | IA J435  | French plant for U.S.S.R      | IA J165            | Zambian wage agreement                              | IA J229            |
| Too much U.S. metal?            | MW J241            | U.S. Australian investment           | IA J439  | Soviet loan for Bolivia       | IA J168            | Higher Torco production                             | IA J271            |
| Rising bismuth consumption      | MW J243            | Aluminium outlook bright             | MW J451  | Rising metals production      | MW J181            |   | MW J285            |
| Canadian iron ore               | MW J243            | Japanese coal imports                | MW J453  | Soviet coal for Japan?        | IA J187            | Mufulira-full production in                         | 4337 1337          |
| Two new rockbits                | M J245             | G.M. contract gets approval          | IA J460  | Stalco/U.S.S.R. nickel deal   | IA J211            |   | MW J336<br>IA J340 |
| Head Wrightson American         | 24 1245            | Legislation on uranium leases        | IA J460  | Gold from the ocean bed       | IA J226            | Exploration in Zambia                               |                    |
| contract                        | M J245             | Mining must speak out                | N J477   | Gold discoveries              | IA J226            | Zambian copper consortium                           | IA J364            |
| New plant for Amax?             | 1A J248            | U.S. stockpile investigation.        | MW J479  | Rising bismuth consumption    | MW J243            | Tan-Zam railway inagurated                          | IA J391            |
| Sunshine/Cerro agreement        | 1A J249            | Hamersley expansion pro-             | *****    | Amethysts in U.S.S.R.         | IA J247            | Cipec holds informal talks                          | IA J412<br>IA J412 |
| U.S. cuts copper defence        | IA J249            | gramme                               | MW J481  | Pollution problem for plati-  | N DET              | R.C.M. copper sales                                 | IA J412            |
| stockpile                       |                    | Expanding beryllium markets          | MW J482  | num                           | N J257             | Kaunda on copper prospects                          | 1A J439            |
| Copper supply prediction        | MW J261            | Tax on lead in petrol deferred       | IA J487  |                               | MW J261            | Canada aids Zambian rail-                           | 1A 1450            |
| U.S. sanctions Rhodesian        | MAN 1262           | Time running out for Cipec           | N J497   |                               | MW J262            | roads   | IA J459<br>N J497  |
| imports                         | MW J262            | Japan could top the U.S              | MW J501  |                               | MW J263            | Time running out for Cipec .                        | MAN 1551           |
| Utah's uranium commitment       | IA J271            | Foote's new vanadium plant           |          | U.S.S.R. Indonesian interests | IA J270            | International manpower unit                         | N J566             |
| United Engineers' contract      | IA J271<br>IA J272 | Mogul copper intersection            | IA J507  | Japan/U.S.S.R. nickel talks   | IA J271<br>MW J287 | A difficult year                                    | P M005             |
| Senate approves Ike dollar.     | MW J285            | Asarco acquires coal proper-<br>ties | IA J508  |                               | MW J287<br>MW J313 | Nchanga copper leaching<br>Bancroft pumping station | A M055             |
| Metals and the motor strike     |                    |                                      |          |                               |                    |   |                    |
| Denison to sue government       |                    |                                      |          |                               |                    |   |                    |
| Denison to sue government       | MW J285            | Utah uranium mine progress           | 1A J508  |                               | MW J314            | Disaster at Mufulira                                | P M379             |

### **Methods and Machines**

| ASSAY METHODS                |        | Blasting in openpits          | D M163   |
|------------------------------|--------|-------------------------------|----------|
| In situ assay of tin ore     | M 1483 | Sensitivity of explosives     | D M164   |
| In and many or in ore        |        | Laser controls boring machine | M M235   |
| AUTOMATION                   |        | High speed loading            | A M313   |
| Control instrumentation      | M J093 |                               | D M366   |
| Accurate ore truck weighing  | M J361 |                               | D M368   |
|                              | M 1505 |                               | M M538   |
|                              | M 1526 | Stemming bags                 | MI MISSO |
| Articulated conveyor stacker |        | COM TECHNIOLOGY               |          |
| Pre-start alarm system       | M J553 | COAL TECHNOLOGY               |          |
| Haulage                      | M M071 | In-strata drilling            | M J009   |
| Dumping system               | M M071 | Huwood-Mastabar supports      | M J047   |
| Low-cost computer            | M M072 | U.K. Safety in Mines          | M J136   |
| Computer exploration         | A M102 | Fines processing              | M J203   |
| Radio communication          | D M162 | P.D.T.S. in Latin America     | P M007   |
| Geolectric prospecting       | D M162 | E.E.C. energy production      | T M059   |
| Magnetic tape device         | R M165 | Longest conveyor              | M M069   |
| Automatic control            | R M165 | Water spray                   | M M 160  |
| Accurate ore truck weighing  | M M539 | Processing fines              | D M164   |
| Trees.                       |        | In-seam drilling machine      | M M233   |
| BLASTING AND EXPLOSE         | VES    | Treatment of coal fines       | M M361   |
| Mole and blast tunnelling    | M J029 | Treatment of cour mes         |          |
| Stemming bags                | M J291 | COMPUTERS                     |          |
| Evaluating explosives        | M 1552 | Use in mine planning          | M J117   |
| Slurry blasting              | A M051 | Low-cost computer             | M M072   |
|                              | D M081 |                               | A M102   |
|                              | D M084 |                               | M M349   |
| Massive blasts               |        | Geometrics                    | M M349   |
| A.N.F.O. and slurry-fixing   | D M089 | COMMENCES                     |          |
| Explosives do more work      | A M112 | CONVEYORS                     |          |
| Tunnel blasting              | A M121 | Ropes for new conveyors       | M J069   |
| Down-the-hole hammer drill   | D M162 | New spiral elevators          | M J185   |
|                              |        |                               |          |

| Mobile system at Lea Hall   |     | M J205     |
|-----------------------------|-----|------------|
| Cable belt contracts        |     | M J361     |
| New Caledonian installat    | ion | M J363     |
| Articulated conveyor stac   | ker | M J526     |
| Wire ropes for U.S          |     | M J553     |
| Longest conveyor            |     | M M069     |
| Stacker-reclaimer           |     | M M071     |
| Conveyor for open pits      |     | D M083     |
|                             |     | M M159     |
| Twin Buttes                 |     | A M182     |
| Brazilian ropeway contrac   |     | M M441     |
|                             |     |            |
| COLICIUNG AND COLO          |     | 16         |
| CRUSHING AND GRIN           |     | 16 1020    |
|                             |     | M J030     |
| Grangesberg pebble mill     | 4.4 | M J047     |
| Centrifugal mill            |     | M J183     |
| 36in cone crusher           | * 1 | M J289     |
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| Varel Manufactu  | ring In | nc     | M        | J245          |
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| Vibrating Handli   | ng I td |        | M        | 1185          |
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